Drinking Water Surveillance Program

# PORT DOVER WATER SUPPLY SYSTEM

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# PORT DOVER
# WATER SUPPY SYSTEM

## DRINKING WATER SURVEILLANCE PROGRAM

## ANNUAL REPORT 1989

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PIBS 1357

# EXECUTIVE SUMMARY

## DRINKING WATER SURVEILLANCE PROGRAM

## PORT DOVER WATER SUPPLY SYSTEM
## 1989 ANNUAL REPORT

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, 65 plants were being monitored.

The Port Dover Water Supply System consists of a conventional treatment plant which treats water from Lake Erie. This process consists of coagulation, flocculation, sedimentation, filtration and disinfection and the plant has a design capacity of 11.4 X 1000 $M^3$/day. The Doan's Hollow Infiltration Pond is used as an additional source and, once chlorinated, makes up approximately 25 percent of the water supplied to Port Dover. Both sources supply a population of approximately 4,700.

Water samples from the plant: raw and treated; Doan's Hollow: raw and treated and two distribution system sites were taken on a monthly basis and analyzed for the presence of 180 parameters. Parameters were divided into the following groups: Bacteriological, Inorganic and Physical (Laboratory Chemistry, Field Chemistry and Metals) and Organic (Chloroaromatics, Chlorophenols, Pesticides and PCB, Phenolics, Polyaromatic Hydrocarbons, Specific Pesticides and Volatiles). Chlorophenols and Specific Pesticides were analyzed in June and November only.

A summary of results is shown in Table A.

Turbidity of the treated water from Doan's Hollow Infiltration Pond was above the ODWO in December. The District Officer was notified.

All other Inorganic and Physical parameters were below any applicable health related ODWOs.

Samples were analyzed monthly for the presence of approximately 110 Organics. Levels did not exceed health related guidelines.

During 1989, the DWSP sampling results indicated that the Port Dover Water Supply System produced good quality water at the plant and this quality was maintained in the distribution system.

TABLE A

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY

SUMMARY TABLE BY SCAN (1988)

| SCAN | PORT DOVER RAW TESTS | PORT DOVER RAW POSITIVE | PORT DOVER RAW %POSITIVE | PORT DOVER TREATED TESTS | PORT DOVER TREATED POSITIVE | PORT DOVER TREATED %POSITIVE | SITE 1 TESTS | SITE 1 POSITIVE | SITE 1 %POSITIVE | SITE 2 TESTS | SITE 2 POSITIVE | SITE 2 %POSITIVE | DOANS HOLLOW RAW TESTS | DOANS HOLLOW RAW POSITIVE | DOANS HOLLOW RAW %POSITIVE | DOANS HOLLOW TREATED TESTS | DOANS HOLLOW TREATED POSITIVE | DOANS HOLLOW TREATED %POSITIVE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BACTERIOLOGICAL | 33 | 21 | 63 | 33 | 7 | 21 | 3 | 2 | 66 | 24 | 5 | 20 | 21 | 19 | 90 | 24 | 16 | 66 |
| CHEMISTRY (FLD) | 39 | 36 | 92 | 72 | 72 | 100 | 12 | 9 | 75 | 103 | 97 | 94 | 26 | 26 | 100 | 53 | 52 | 98 |
| CHEMISTRY (LAB) | 240 | 194 | 80 | 239 | 174 | 72 | 35 | 30 | 85 | 311 | 263 | 84 | 180 | 146 | 81 | 180 | 139 | 77 |
| METALS | 287 | 166 | 57 | 288 | 130 | 45 | 47 | 27 | 57 | 400 | 226 | 56 | 216 | 102 | 47 | 216 | 111 | 51 |
| CHLOROAROMATICS | 168 | 0 | 0 | 154 | 0 | 0 | 14 | 0 | 0 | 126 | 0 | 0 | 126 | 0 | 0 | 126 | 0 | 0 |
| CHLOROPHENOLS | 6 | 0 | 0 | 6 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| PAH | 191 | 0 | 0 | 191 | 0 | 0 | . | . | . | . | . | . | 146 | 0 | 0 | 146 | 0 | 0 |
| PESTICIDES & PCB | 408 | 0 | 0 | 387 | 0 | 0 | 34 | 0 | 0 | 254 | 0 | 0 | 306 | 0 | 0 | 306 | 0 | 0 |
| PHENOLICS | 11 | 6 | 54 | 12 | 5 | 41 | . | . | . | . | . | . | 9 | 3 | 33 | 9 | 1 | 11 |
| SPECIFIC PESTICIDES | 39 | 0 | 0 | 38 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| VOLATILES | 348 | 9 | 2 | 348 | 44 | 12 | 29 | 4 | 13 | 261 | 36 | 13 | 261 | 0 | 0 | 232 | 32 | 13 |
| | 1770 | 432 | | 1768 | 432 | | 175 | 72 | | 1488 | 627 | | 1300 | 296 | | 1301 | 351 | |

NO KNOWN HEALTH RELATED GUIDELINES WERE EXCEEDED

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE
A '.' INDICATES THAT NO SAMPLE WAS TAKEN

# DRINKING WATER SURVEILLANCE PROGRAM

## PORT DOVER WATER SUPPLY SYSTEM
## 1989 ANNUAL REPORT

### INTRODUCTION

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, 65 plants were being monitored.

The DWSP was initiated for the Port Dover Water Supply System in the spring of 1987. Annual reports were published for 1987 and 1988 (ISSN 0840-5328).

This report contains information and results for 1989.

In order to accommodate the increasing number of plants on the DWSP and to facilitate the timely completion of the 1989 annual reports, plants with two or more years of published data will receive an abbreviated annual report. This report maintains the same general format as in previous years but does not include a comprehensive discussion of results. For more detail on the parameters analyzed and discussion of results, consult the 1987 and 1988 reports.

## PLANT DESCRIPTION

The Port Dover Water Supply System includes two raw water sources. The primary supply is a conventional treatment plant which treats water from Lake Erie. The plant process consists of coagulation and flocculation (upflow clarifier), sedimentation, filtration and disinfection. The treatment plant has a design capacity of 11.4 x 1000 $m^3$/day and flows on day of sampling ranging from 1.7 x 1000 $m^3$/day to 3.8 x 1000 $m^3$/day. The secondary supply is an infiltration pond. Water is collected in the Doan's Hollow Infiltration pond and is chlorinated prior to distribution. The Doan's Hollow Infiltration pond has sample day flows of 1.2 x 1000 $m^3$/day. This source supplies approximately 20 to 30 percent of the total amount of treated water to the Port Dover System. Together, the water treatment plant and the infiltration pond serves a population of approximately 4,700.

The plant location is shown in Figure 1. Plant process details, in a block schematic, are shown in Figure 2. General plant information is presented in Table 2.

## SAMPLING AND ANALYSES

Plant operating personnel perform analyses on parameters for process control (Table 1).

# FIGURE 1

## DRINKING WATER SURVEILLANCE PROGRAM

## SITE LOCATION MAP

## PORT DOVER WATER SUPPLY SYSTEM

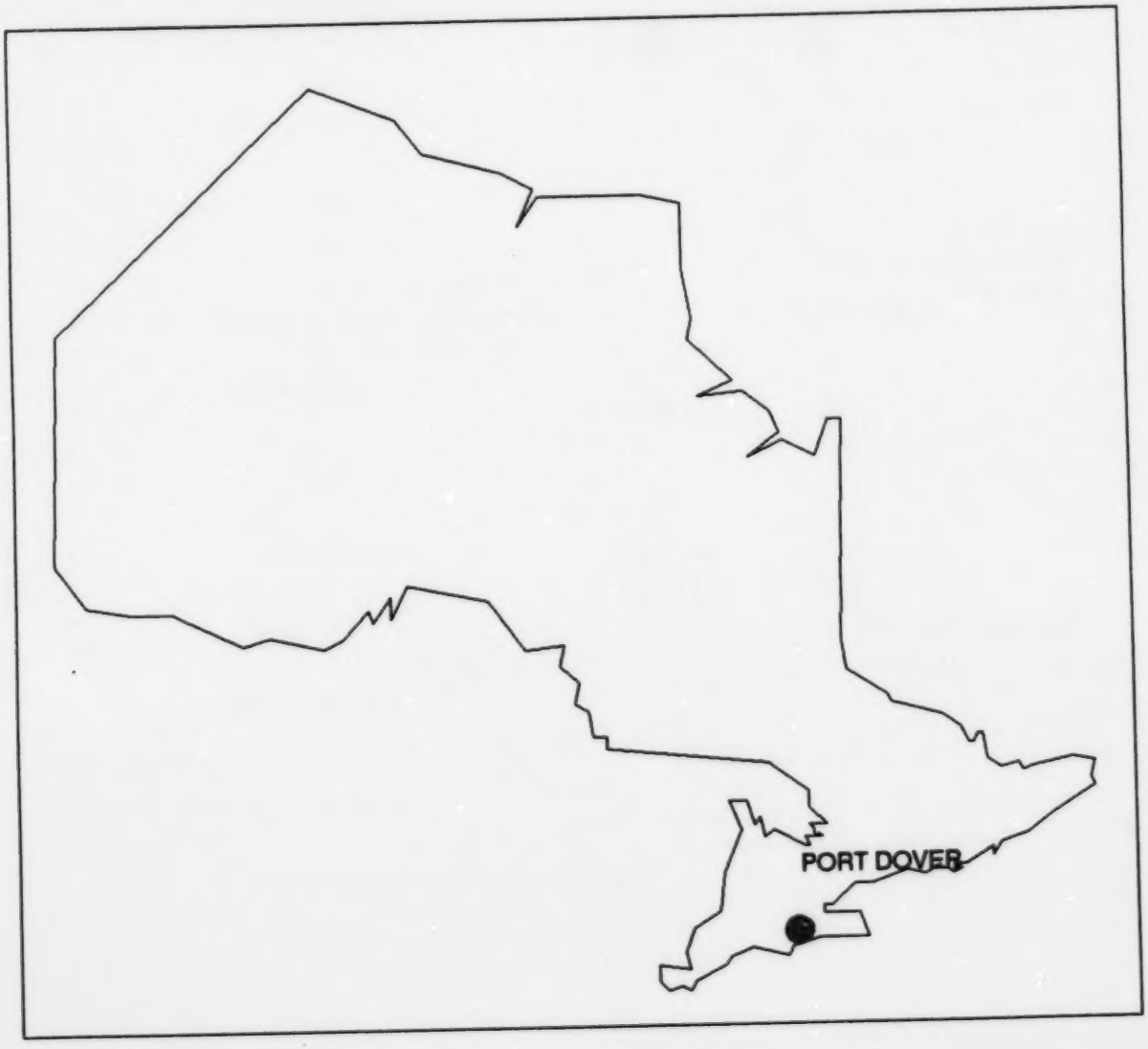

FIGURE 2

# PORT DOVER WATER TREATMENT PLANT

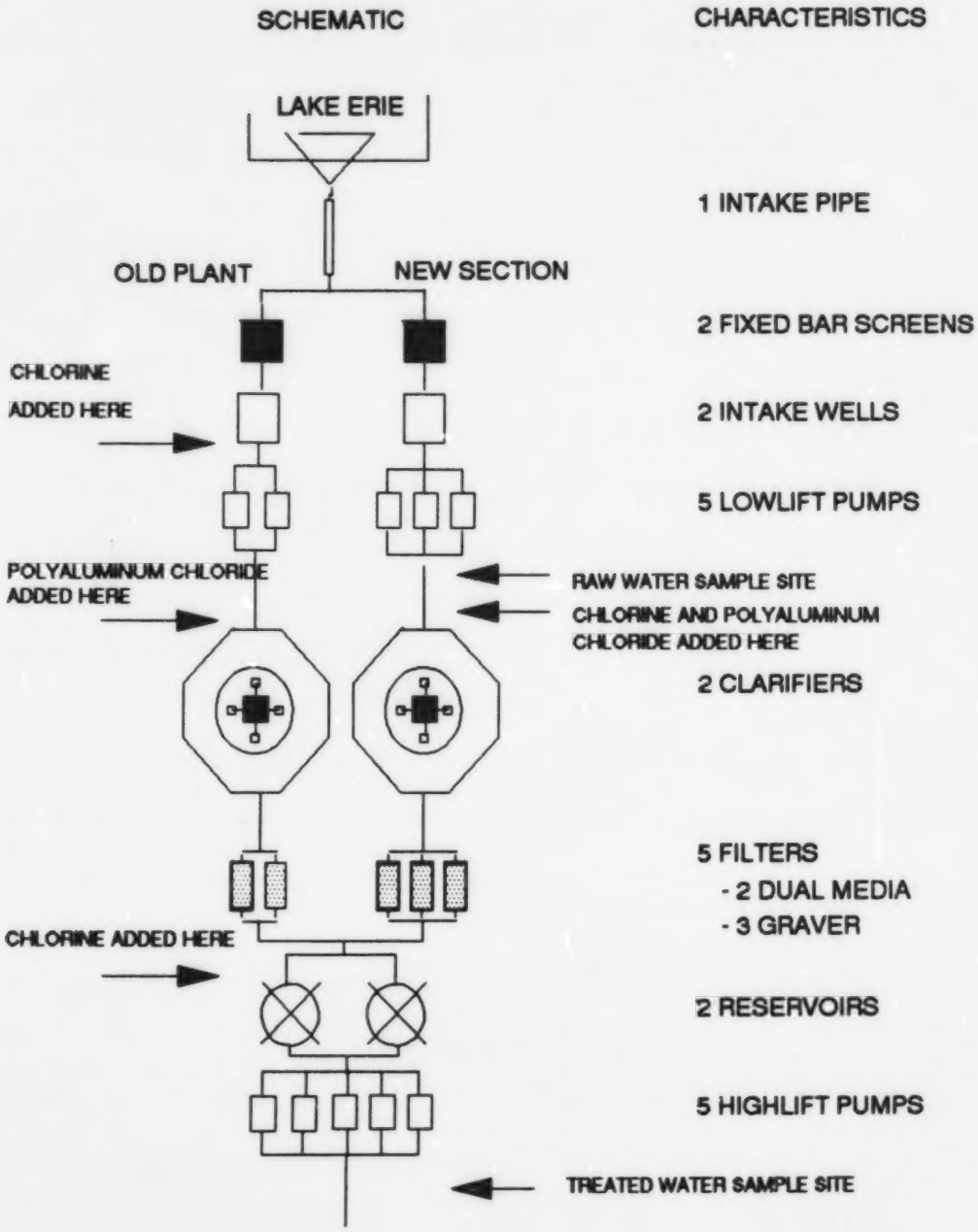

TABLE 1

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

IN-PLANT MONITORING PORT DOVER WSS 1989

| PARAMETER | LOCATION | FREQUENCY |
|---|---|---|
| Chlorine residual-free | Treated water | 3 times/day |
| Ph | Treated water | monthly |
| Temperature | Raw wet well | daily |
| Turbidity | Treated water | continuous |

TABLE 2

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

GENERAL INFORMATION

PORT DOVER WATER SUPPLY SYSTEM

| | |
|---|---|
| LOCATION: | 316 NELSON STREET<br>PORT DOVER, ONTARIO<br>N0A 1N0<br>(519-583-1930) |
| SOURCE: | RAW WATER SOURCE - LAKE ERIE |
| RATED CAPACITY: | 11.4 (1000 $M^3$/DAY) |
| OPERATION: | MUNICIPAL |
| PLANT SUPERINTENDENT: | W. WIGHT |
| MINISTRY REGION: | WEST CENTRAL |
| DISTRICT OFFICER: | MR. P. ROSTERN |

| MUNICIPALITY SERVED | POPULATION |
|---|---|
| PORT DOVER | 4,682 |

The Port Dover Water Treatment Plant and distribution system locations were sampled for the presence of approximately 180 parameters monthly in 1989. The Doan's Hollow Infiltration Pond was sampled monthly with the exception of May, June and September. Specific Pesticides and Chlorophenols were sampled in June and November only. Polyaromatic Hydrocarbons and Phenolics are only analyzed in the raw and treated water at the plant. As of August 1989, the analysis of Triazine pesticides was dropped from the distribution sample. Laboratory analysis was conducted at the Ministry of the Environment facilities in Rexdale, Ontario.

## RESULTS

Field Chemistry measurements were recorded on the day of sampling and were entered on the DWSP database as submitted by plant personnel.

Table 3 contains information on the sample day retention time, flow rate and treatment chemicals used and their associated dosages.

Table 4 is a summary break-down of the number of water samples analyzed by parameter and by water type. The number of times that a positive or trace result was detected is also reported.
Positive denotes that the result is greater than the statistical limit of detection established by the Ministry of the Environment (MOE) laboratory staff and is quantifiable. Trace (<T) denotes

that the level measured is greater than the lowest value detectable by the method but lies so close to the detection limit that it cannot be confidently quantified.

Table 5 presents the results for parameters detected on at least one occasion.

Table 6 lists all parameters analyzed in the DWSP.

Associated guidelines and detection limits are also supplied on tables 5 and 6. Parameters are listed alphabetically within each scan.

## DISCUSSION

### General

Water quality is judged by comparison with the Ontario Drinking Water Objectives (ODWO's) as defined in the 1984 publication (ISBN 0-7743-8985-0). The Province of Ontario has health related and aesthetic objectives for 49 parameters. These are currently under review. When an ODWO is not available, guidelines/limits from other agencies are consulted. The Parameter Listing System (PALIS), recently published (ISBN 0-7729-4461-X) by the MOE, catalogues and keeps current over 1750 guidelines for 650 parameters from agencies throughout the world.

Many of the compounds detected are naturally occurring or are treatment by-products.

**IN THIS REPORT, DISCUSSION IS LIMITED TO THE TREATED AND DISTRIBUTED WATER AND ADDRESSES ONLY THOSE PARAMETERS WITH CONCENTRATIONS ABOVE GUIDELINE VALUES AND ORGANIC PARAMETERS WITH POSITIVE RESULTS.**

Results of the treated water indicate that one health related guideline, turbidity, was exceeded.

## Bacteriology

### Standard Plate Count

Four treated water samples from the plant, two treated water samples from the infiltration pond and one sample in the distribution for standard plate count were reported above the ODWO aesthetic guideline of 500 counts/mL, indicating some deterioration in the water quality.

## Inorganic and Physical

### Turbidity

The turbidity of the treated water from the plant was reported above the ODWO health related guideline of 1.0 Formazin Turbidity

Units (FTU) in February. When reviewing the February results, it is evident that the raw and treated samples were reversed, as also noted by the trihalomethanes, and the results should therefore be discounted.

The turbidity from the infiltration pond was reported at 1.19 FTU in October and 3.5 FTU in December. The December turbidity was confirmed by the field value and the District Officer was notified.

**Hardness**

The aesthetic ODWO for hardness indicates that a level of between 80 and 100 mg/L as the equivalent quantity of calcium carbonate is appropriate and water supplies with a hardness greater than 200 mg/L are considered poor. Hardness values in the Doan's Hollow infiltration pond ranged from 258 to 282 mg/L as calcium carbonate. Another parameter associated with hardness, conductivity, was also high.

**Aluminum**

Aluminum values exceeded the ODWO operational guideline of 100 µg/L in ten treated and distribution samples with a maximum of 290 µg/L.

## Organic Parameters

### Trihalomethanes

Trihalomethanes (THMs) are acknowledged to be produced during the water treatment process and will always occur in chlorinated surface waters. THMs are comprised of Chloroform, Chlorodibromomethane and Dichlorobromomethane. Bromoform occurs occasionally. Results are reported for the individual compounds as well as for total THMs. All total THM occurrences, both treated and distribution samples ranging from 28.5 to 63.4 ug/L with a combined average of 45.8 µg/L, were well below the ODWO of 350 ug/L.

## CONCLUSIONS

Health related ODWO guidelines were exceeded in 1989 for one parameter.
Turbidity was above the guideline in one treated sample from the Doan's Hollow infiltration pond.

The results listed in this report are consistent with results reported for previous years.

The treated water was generally of good quality water and this was maintained in the distribution system.

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| | SAMPLE DAY CONDITIONS | | | TREATMENT CHEMICAL DOSAGES (MG/L) | | |
|---|---|---|---|---|---|---|
| | PORT DOVER | | | DOANS HOLLOW | | |
| DATE | DELAY * TIME(HRS) | FLOW (1000M3) | CHLORINATION | DELAY * TIME(HRS) | FLOW (1000M3) | CHLORINATION |
| JAN 23 | . | . | . | .5 | 1.2 | 01.26 |
| JAN 24 | 2.0 | 2.0 | 04.43 | . | . | . |
| FEB 27 | . | . | . | .5 | 1.2 | 01.20 |
| FEB 28 | 2.0 | 1.7 | 08.76 | . | . | . |
| MAR 28 | . | . | . | .5 | 1.2 | 01.26 |
| MAR 29 | 1.5 | .0 | 05.91 | . | . | . |
| APR 24 | 2.0 | 2.1 | 09.04 | .5 | 1.2 | 01.26 |
| MAY 24 | 2.0 | 4.1 | 06.61 | . | . | . |
| JUN 27 | 2.0 | 3.4 | 06.57 | . | . | . |
| JUL 24 | . | . | . | .5 | 1.2 | 00.63 |
| JUL 25 | 2.0 | .0 | 06.13 | . | . | . |
| AUG 28 | 2.0 | 3.8 | 06.10 | .5 | 1.2 | 00.66 |
| SEP 26 | 2.0 | .0 | 07.55 | . | . | . |
| OCT 23 | . | . | . | .5 | 1.2 | 01.51 |
| OCT 24 | 2.0 | 2.2 | 09.23 | . | . | . |
| NOV 27 | . | . | . | .2 | .0 | 01.82 |
| NOV 28 | 2.0 | 1.9 | 10.66 | . | . | . |
| DEC 18 | . | . | . | .0 | 1.2 | 14.60 |
| DEC 19 | .0 | 2.5 | 10.88 | . | . | . |

* THE DELAY TIME BETWEEN THE RAW AND TREATED WATER SAMPLING, SHOULD ESTIMATE THE RETENTION TIME

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY

SUMMARY TABLE OF RESULTS (1989)

| | | PLANT PORT DOVER | | | | | | | | | | | | DOANS HOLLOW | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RAW | | | TREATED | | | SITE 1 | | | SITE 2 | | | RAW | | | TREATED | | |
| SCAN | PARAMETER | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE |
| BACTERIOLOGICAL | FECAL COLIFORM MF | 11 | 5 | 0 | . | . | . | . | . | . | . | . | . | 7 | 7 | 0 | . | . | . |
| | STANDRD PLATE CNT MF | . | . | . | 11 | 6 | 0 | 1 | 1 | 0 | 8 | 4 | 0 | . | . | . | 8 | 8 | 0 |
| | TOTAL COLIFORM MF | 11 | 6 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 8 | 0 | 0 | 7 | 6 | 0 | 8 | 1 | 0 |
| | T COLIFORM BCKGRD MF | 11 | 10 | 0 | 11 | 1 | 0 | 1 | 1 | 0 | 8 | 1 | 0 | 7 | 6 | 0 | 8 | 7 | 0 |
| *TOTAL SCAN BACTERIOLOGICAL | | 33 | 21 | 0 | 33 | 7 | 0 | 3 | 2 | 0 | 24 | 5 | 0 | 21 | 19 | 0 | 24 | 16 | 0 |
| *TOTAL GROUP BACTERIOLOGICAL | | 33 | 21 | 0 | 33 | 7 | 0 | 3 | 2 | 0 | 24 | 5 | 0 | 21 | 19 | 0 | 24 | 16 | 0 |
| CHEMISTRY (FLD) | FLD CHLORINE (COMB) | 1 | 0 | 0 | 12 | 12 | 0 | 2 | 1 | 0 | 15 | 11 | 0 | . | . | . | 9 | 8 | 0 |
| | FLD CHLORINE FREE | 1 | 0 | 0 | 12 | 12 | 0 | 2 | 1 | 0 | 18 | 17 | 0 | . | . | . | 9 | 9 | 0 |
| | FLD CHLORINE (TOTAL) | 1 | 0 | 0 | 12 | 12 | 0 | 2 | 1 | 0 | 18 | 17 | 0 | . | . | . | 9 | 9 | 0 |
| | FLD PH | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 18 | 18 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |
| | FLD TEMPERATURE | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 18 | 18 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |
| | FLD TURBIDITY | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 16 | 16 | 0 | 8 | 8 | 0 | 8 | 8 | 0 |
| *TOTAL SCAN CHEMISTRY (FLD) | | 39 | 36 | 0 | 72 | 72 | 0 | 12 | 9 | 0 | 103 | 97 | 0 | 26 | 26 | 0 | 53 | 52 | 0 |
| CHEMISTRY (LAB) | ALKALINITY | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 18 | 18 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |
| | CALCIUM | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 18 | 18 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |
| | CYANIDE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 1 |
| | CHLORIDE | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 18 | 18 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY

SUMMARY TABLE OF RESULTS (1989)

| | | PLANT PORT DOVER SITE | | | | | | DOANS HOLLOW | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RAW | | | TREATED | | | SITE 1 | | | SITE 2 | | | RAW | | | TREATED | | |
| SCAN | PARAMETER | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE |
| CHEMISTRY (LAB) | COLOUR | 12 | 3 | 8 | 11 | 1 | 9 | 2 | 0 | 2 | 16 | 6 | 10 | 9 | 7 | 2 | 9 | 8 | 1 |
| | CONDUCTIVITY | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 18 | 18 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |
| | FLUORIDE | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 16 | 16 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |
| | HARDNESS | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 18 | 18 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |
| | LANGELIERS INDEX | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 18 | 18 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |
| | MAGNESIUM | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 18 | 18 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |
| | SODIUM | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 18 | 18 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |
| | AMMONIUM TOTAL | 12 | 8 | 2 | 12 | 2 | 4 | 2 | 2 | 0 | 18 | 6 | 7 | 9 | 3 | 4 | 9 | 2 | 2 |
| | NITRITE | 12 | 3 | 8 | 12 | 1 | 10 | 2 | 0 | 2 | 18 | 3 | 12 | 9 | 9 | 0 | 9 | 1 | 7 |
| | TOTAL NITRATES | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 18 | 18 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |
| | NITROGEN TOT KJELD | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 18 | 16 | 2 | 9 | 8 | 1 | 9 | 6 | 3 |
| | PH | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 18 | 18 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |
| | PHOSPHORUS FIL REACT | 12 | 2 | 7 | 12 | 1 | 2 | . | . | . | . | . | . | 9 | 2 | 3 | 9 | 2 | 7 |
| | PHOSPHORUS TOTAL | 12 | 10 | 2 | 12 | 2 | 10 | . | . | . | . | . | . | 9 | 0 | 9 | 9 | 3 | 6 |
| | SULPHATE | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 18 | 18 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |
| | TURBIDITY | 12 | 12 | 0 | 12 | 11 | 1 | 2 | 2 | 0 | 18 | 18 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |
| *TOTAL SCAN CHEMISTRY (LAB) | | 240 | 194 | 27 | 239 | 174 | 36 | 35 | 30 | 4 | 311 | 263 | 31 | 180 | 146 | 19 | 180 | 139 | 27 |
| METALS | SILVER | 12 | 0 | 1 | 12 | 0 | 1 | 2 | 0 | 0 | 17 | 0 | 0 | 9 | 0 | 1 | 9 | 0 | 0 |
| | ALUMINUM | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 17 | 17 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |
| | ARSENIC | 12 | 8 | 4 | 12 | 2 | 10 | 2 | 0 | 2 | 17 | 1 | 16 | 9 | 1 | 8 | 9 | 1 | 8 |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY

SUMMARY TABLE OF RESULTS (1989)

| | | PLANT PORT DOVER SITE | | | | | | DOANS HOLLOW | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RAW | | | TREATED | | | SITE 1 | | | SITE 2 | | | RAW | | | TREATED | | |
| SCAN | PARAMETER | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE |
| METALS | BARIUM | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 17 | 17 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |
| | BORON | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 17 | 13 | 4 | 9 | 5 | 4 | 9 | 6 | 3 |
| | BERYLLIUM | 12 | 0 | 9 | 12 | 0 | 8 | 2 | 0 | 2 | 17 | 0 | 10 | 9 | 0 | 5 | 9 | 0 | 6 |
| | CADMIUM | 12 | 0 | 4 | 12 | 0 | 4 | 2 | 0 | 2 | 17 | 0 | 6 | 9 | 0 | 1 | 9 | 0 | 1 |
| | COBALT | 12 | 0 | 12 | 12 | 0 | 12 | 2 | 0 | 2 | 17 | 0 | 12 | 9 | 0 | 6 | 9 | 0 | 5 |
| | CHROMIUM | 12 | 10 | 2 | 12 | 8 | 3 | 2 | 2 | 0 | 17 | 13 | 3 | 9 | 6 | 0 | 9 | 6 | 0 |
| | COPPER | 12 | 10 | 2 | 12 | 9 | 3 | 2 | 2 | 0 | 17 | 17 | 0 | 9 | 1 | 7 | 9 | 8 | 1 |
| | IRON | 12 | 8 | 3 | 12 | 1 | 3 | 2 | 1 | 1 | 17 | 14 | 3 | 9 | 9 | 0 | 9 | 8 | 0 |
| | MERCURY | 11 | 1 | 2 | 12 | 1 | 1 | 1 | 0 | 0 | 9 | 1 | 1 | 9 | 1 | 0 | 9 | 1 | 2 |
| | MANGANESE | 12 | 11 | 1 | 12 | 7 | 4 | 2 | 2 | 0 | 17 | 17 | 0 | 9 | 9 | 0 | 9 | 8 | 1 |
| | MOLYBDENUM | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 17 | 17 | 0 | 9 | 6 | 3 | 9 | 7 | 2 |
| | NICKEL | 12 | 1 | 10 | 12 | 1 | 9 | 2 | 0 | 1 | 17 | 3 | 7 | 9 | 0 | 1 | 9 | 0 | 2 |
| | LEAD | 12 | 9 | 2 | 12 | 1 | 9 | 2 | 2 | 0 | 17 | 13 | 4 | 9 | 2 | 7 | 9 | 5 | 3 |
| | ANTIMONY | 12 | 11 | 1 | 12 | 12 | 0 | 2 | 2 | 0 | 17 | 16 | 1 | 9 | 8 | 1 | 9 | 9 | 0 |
| | SELENIUM | 12 | 0 | 6 | 12 | 1 | 9 | 2 | 0 | 2 | 17 | 2 | 12 | 9 | 0 | 5 | 9 | 0 | 4 |
| | STRONTIUM | 12 | 12 | 0 | 12 | 12 | 0 | 2 | 2 | 0 | 17 | 17 | 0 | 9 | 9 | 0 | 9 | 9 | 0 |
| | TITANIUM | 12 | 12 | 0 | 12 | 10 | 2 | 2 | 2 | 0 | 17 | 16 | 1 | 9 | 9 | 0 | 9 | 9 | 0 |
| | THALLIUM | 12 | 0 | 4 | 12 | 0 | 2 | 2 | 0 | 2 | 17 | 0 | 2 | 9 | 0 | 4 | 9 | 0 | 4 |
| | URANIUM | 12 | 11 | 1 | 12 | 7 | 4 | 2 | 2 | 0 | 17 | 14 | 3 | 9 | 9 | 0 | 9 | 8 | 1 |
| | VANADIUM | 12 | 4 | 8 | 12 | 1 | 11 | 2 | 0 | 2 | 17 | 2 | 15 | 9 | 0 | 9 | 9 | 0 | 9 |
| | ZINC | 12 | 10 | 2 | 12 | 9 | 3 | 2 | 2 | 0 | 17 | 16 | 1 | 9 | 9 | 0 | 9 | 8 | 1 |
| *TOTAL SCAN METALS | | 287 | 166 | 74 | 288 | 130 | 98 | 47 | 27 | 16 | 400 | 226 | 101 | 216 | 102 | 62 | 216 | 111 | 53 |
| *TOTAL GROUP INORGANIC & PHYSICAL | | 566 | 396 | 101 | 599 | 376 | 134 | 94 | 66 | 20 | 814 | 586 | 132 | 422 | 274 | 81 | 449 | 302 | 80 |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY

SUMMARY TABLE OF RESULTS (1989)

| | | PLANT PORT DOVER SITE | | | | | | | | | | | | DOANS HOLLOW | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RAW | | | TREATED | | | SITE 1 | | | SITE 2 | | | RAW | | | TREATED | | |
| SCAN | PARAMETER | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE |
| CHLOROAROMATICS | HEXACHLOROBUTADIENE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | 123 TRICHLOROBENZENE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | 1234 T-CHLOROBENZENE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | 1235 T-CHLOROBENZENE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | 124 TRICHLOROBENZENE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | 1245 T-CHLOROBENZENE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | 135 TRICHLOROBENZENE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | HCB | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | HEXACHLOROETHANE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | OCTACHLOROSTYRENE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | PENTACHLOROBENZENE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | 236 TRICHLOROTOLUENE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | 245 TRICHLOROTOLUENE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | 26A TRICHLOROTOLUENE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| *TOTAL SCAN CHLOROAROMATICS | | 168 | 0 | 0 | 154 | 0 | 0 | 14 | 0 | 0 | 126 | 0 | 0 | 126 | 0 | 0 | 126 | 0 | 0 |
| CHLOROPHENOLS | 234 TRICHLOROPHENOL | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | 2345 T-CHLOROPHENOL | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | 2356 T-CHLOROPHENOL | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | 245-TRICHLOROPHENOL | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | 246-TRICHLOROPHENOL | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY

SUMMARY TABLE OF RESULTS (1989)

| | | PLANT PORT DOVER SITE | | | | | | DOANS HOLLOW | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RAW | | | TREATED | | | SITE 1 | | | SITE 2 | | | RAW | | | TREATED | | |
| SCAN | PARAMETER | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE |
| CHLOROPHENOLS | PENTACHLOROPHENOL | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| *TOTAL SCAN CHLOROPHENOLS | | 6 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PAH | PHENANTHRENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . | 9 | 0 | 0 | 9 | 0 | 0 |
| | ANTHRACENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . | 9 | 0 | 0 | 9 | 0 | 0 |
| | FLUORANTHENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . | 9 | 0 | 0 | 9 | 0 | 0 |
| | PYRENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . | 9 | 0 | 0 | 9 | 0 | 0 |
| | BENZO(A)ANTHRACENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . | 9 | 0 | 0 | 9 | 0 | 0 |
| | CHRYSENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . | 9 | 0 | 0 | 9 | 0 | 0 |
| | DIMETH. BENZ(A)ANTHR | 6 | 0 | 0 | 6 | 0 | 0 | . | . | . | . | . | . | 6 | 0 | 0 | 6 | 0 | 0 |
| | BENZO(E) PYRENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . | 9 | 0 | 0 | 9 | 0 | 0 |
| | BENZO(B) FLUORANTHEN | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . | 9 | 0 | 0 | 9 | 0 | 0 |
| | PERYLENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . | 9 | 0 | 0 | 9 | 0 | 0 |
| | BENZO(K) FLUORANTHEN | 12 | 0 | 1 | 12 | 0 | 0 | . | . | . | . | . | . | 9 | 0 | 0 | 9 | 0 | 0 |
| | BENZO(A) PYRENE | 5 | 0 | 0 | 5 | 0 | 0 | . | . | . | . | . | . | 5 | 0 | 0 | 5 | 0 | 0 |
| | BENZO(G,H,I) PERYLEN | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . | 9 | 0 | 0 | 9 | 0 | 0 |
| | DIBENZO(A,H) ANTHRAC | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . | 9 | 0 | 0 | 9 | 0 | 0 |
| | INDENO(1,2,3-C,D) PY | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . | 9 | 0 | 0 | 9 | 0 | 0 |
| | BENZO(B) CHRYSENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . | 9 | 0 | 0 | 9 | 0 | 0 |
| | CORONENE | 12 | 0 | 0 | 12 | 0 | 0 | . | . | . | . | . | . | 9 | 0 | 0 | 9 | 0 | 0 |
| *TOTAL SCAN PAH | | 191 | 0 | 1 | 191 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 146 | 0 | 0 | 146 | 0 | 0 |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY

SUMMARY TABLE OF RESULTS (1989)

| SCAN | PARAMETER | PLANT PORT DOVER SITE RAW TOTAL | RAW POSITIVE | RAW TRACE | TREATED TOTAL | TREATED POSITIVE | TREATED TRACE | DOANS HOLLOW SITE 1 TOTAL | SITE 1 POSITIVE | SITE 1 TRACE | SITE 2 TOTAL | SITE 2 POSITIVE | SITE 2 TRACE | RAW TOTAL | RAW POSITIVE | RAW TRACE | TREATED TOTAL | TREATED POSITIVE | TREATED TRACE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PESTICIDES & PCB | ALDRIN | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | ALPHA BHC | 12 | 0 | 5 | 11 | 0 | 6 | 1 | 0 | 0 | 9 | 0 | 3 | 9 | 0 | 0 | 9 | 0 | 0 |
| | BETA BHC | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | LINDANE | 12 | 0 | 0 | 11 | 0 | 1 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | ALPHA CHLORDANE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | GAMMA CHLORDANE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | DIELDRIN | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | METHOXYCHLOR | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | ENDOSULFAN 1 | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | ENDOSULFAN II | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | ENDRIN | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | ENDOSULFAN SULPHATE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | HEPTACHLOR EPOXIDE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | HEPTACHLOR | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | MIREX | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | OXYCHLORDANE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | OPDDT | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | PCB | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | DDD | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | PPDDE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | PPDDT | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | AMETRINE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | ATRAZINE | 12 | 0 | 1 | 12 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY

SUMMARY TABLE OF RESULTS (1989)

| | | PLANT PORT DOVER SITE | | | | | | DOANS HOLLOW | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RAW | | | TREATED | | | SITE 1 | | | SITE 2 | | | RAW | | | TREATED | | |
| SCAN | PARAMETER | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE |
| PESTICIDES & PCB | ATRATONE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | CYANAZINE (BLADEX) | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | D-ETHYL ATRAZINE | 12 | 0 | 0 | 12 | 0 | 1 | 1 | 0 | 0 | 5 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | D-ETHYL SIMAZINE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | PROMETONE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | PROPAZINE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | PROMETRYNE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | METRIBUZIN (SENCOR) | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | SIMAZINE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | ALACHLOR (LASSO) | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | METOLACHLOR | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 5 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| *TOTAL SCAN PESTICIDES & PCB | | 408 | 0 | 6 | 387 | 0 | 8 | 34 | 0 | 0 | 254 | 0 | 3 | 306 | 0 | 0 | 306 | 0 | 0 |
| PHENOLICS | PHENOLICS | 11 | 6 | 4 | 12 | 5 | 7 | . | . | . | . | . | . | 9 | 3 | 4 | 9 | 1 | 3 |
| *TOTAL SCAN PHENOLICS | | 11 | 6 | 4 | 12 | 5 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 3 | 4 | 9 | 1 | 3 |
| SPECIFIC PESTICIDES | TOXAPHENE | 12 | 0 | 0 | 11 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| | 2,4,5-T | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | 2,4-D | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY

SUMMARY TABLE OF RESULTS (1989)

| | | PLANT PORT DOVER SITE | | | | | | DOANS HOLLOW | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RAW | | | TREATED | | | SITE 1 | | | SITE 2 | | | RAW | | | TREATED | | |
| SCAN | PARAMETER | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE |
| SPECIFIC PESTICIDES | 2,4-DB | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | 2,4 D PROPIONIC ACID | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | DICAMBA | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | PICHLORAM | 0 | 0 | 0 | 0 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | SILVEX | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | DIAZINON | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | DICHLOROVOS | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | CHLORPYRIFOS | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | ETHION | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | AZINPHOS-METHYL | 0 | 0 | 0 | 0 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | MALATHION | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | MEVINPHOS | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | METHYL PARATHION | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | METHYLTRITHION | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | PARATHION | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | PHORATE | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | RELDAN | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | RONNEL | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | ANIMOCARB | 0 | 0 | 0 | 0 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | BENOMYL | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | BUX | 0 | 0 | 0 | 0 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | CARBOFURAN | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | CICP | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY

SUMMARY TABLE OF RESULTS (1989)

| | | PLANT PORT DOVER SITE | | | | | | DOANS HOLLOW | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | RAW | | | TREATED | | | SITE 1 | | | SITE 2 | | | RAW | | | TREATED | | |
| SCAN | PARAMETER | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE | TOTAL | POSITIVE | TRACE |
| SPECIFIC PESTICIDES | DIALLATE | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | EPTAN | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | IPC | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | PROPOXUR | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | CARBARYL | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| | BUTYLATE | 1 | 0 | 0 | 1 | 0 | 0 | . | . | . | . | . | . | . | . | . | . | . | . |
| *TOTAL SCAN SPECIFIC PESTICIDES | | 39 | 0 | 0 | 38 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 |
| VOLATILES | BENZENE | 12 | 0 | 1 | 12 | 0 | 2 | 1 | 0 | 0 | 9 | 0 | 2 | 9 | 0 | 0 | 8 | 0 | 0 |
| | TOLUENE | 12 | 0 | 2 | 12 | 0 | 7 | 1 | 0 | 1 | 9 | 0 | 3 | 9 | 0 | 1 | 8 | 0 | 3 |
| | ETHYLBENZENE | 12 | 0 | 1 | 12 | 0 | 3 | 1 | 0 | 1 | 9 | 0 | 1 | 9 | 0 | 0 | 8 | 0 | 0 |
| | P-XYLENE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 8 | 0 | 0 |
| | M-XYLENE | 12 | 0 | 1 | 12 | 0 | 2 | 1 | 0 | 0 | 9 | 0 | 1 | 9 | 0 | 0 | 8 | 0 | 0 |
| | O-XYLENE | 12 | 0 | 1 | 12 | 0 | 5 | 1 | 0 | 0 | 9 | 0 | 3 | 9 | 0 | 0 | 8 | 0 | 0 |
| | STYRENE | 12 | 0 | 4 | 12 | 0 | 7 | 1 | 0 | 1 | 9 | 0 | 7 | 9 | 0 | 6 | 8 | 0 | 2 |
| | 1,1 DICHLOROETHYLENE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 8 | 0 | 0 |
| | METHYLENE CHLORIDE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 8 | 0 | 0 |
| | T1,2DICHLOROETHYLENE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 8 | 0 | 0 |
| | 1,1 DICHLOROETHANE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 8 | 0 | 0 |
| | CHLOROFORM | 12 | 3 | 7 | 12 | 11 | 1 | 1 | 1 | 0 | 9 | 9 | 0 | 9 | 0 | 1 | 8 | 8 | 0 |
| | 111, TRICHLOROETHANE | 12 | 0 | 1 | 12 | 0 | 1 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 8 | 0 | 0 |

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY

SUMMARY TABLE OF RESULTS (1989)

| SCAN | PARAMETER | PLANT PORT DOVER SITE RAW TOTAL | RAW POSITIVE | RAW TRACE | TREATED TOTAL | TREATED POSITIVE | TREATED TRACE | SITE 1 TOTAL | SITE 1 POSITIVE | SITE 1 TRACE | SITE 2 TOTAL | SITE 2 POSITIVE | SITE 2 TRACE | DOANS HOLLOW RAW TOTAL | RAW POSITIVE | RAW TRACE | TREATED TOTAL | TREATED POSITIVE | TREATED TRACE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| VOLATILES | 1,2 DICHLOROETHANE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 8 | 0 | 0 |
| | CARBON TETRACHLORIDE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 8 | 0 | 0 |
| | 1,2 DICHLOROPROPANE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 8 | 0 | 0 |
| | TRICHLOROETHYLENE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 8 | 0 | 0 |
| | DICHLOROBROMOMETHANE | 12 | 2 | 5 | 12 | 11 | 1 | 1 | 1 | 0 | 9 | 9 | 0 | 9 | 0 | 0 | 8 | 0 | 0 |
| | 112 TRICHLOROETHANE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 8 | 8 | 0 |
| | CHLORODIBROMOMETHANE | 12 | 2 | 1 | 12 | 11 | 1 | 1 | 1 | 0 | 9 | 9 | 0 | 9 | 0 | 0 | 8 | 0 | 0 |
| | T-CHLOROETHYLENE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 8 | 8 | 0 |
| | BROMOFORM | 12 | 0 | 2 | 12 | 0 | 11 | 1 | 0 | 1 | 9 | 0 | 9 | 9 | 0 | 0 | 8 | 0 | 0 |
| | 1122 T-CHLOROETHANE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 8 | 0 | 5 |
| | CHLOROBENZENE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 8 | 0 | 0 |
| | 1,4 DICHLOROBENZENE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 8 | 0 | 0 |
| | 1,3 DICHLOROBENZENE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 8 | 0 | 0 |
| | 1,2 DICHLOROBENZENE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 8 | 0 | 0 |
| | ETHLYENE DIBROMIDE | 12 | 0 | 0 | 12 | 0 | 0 | 1 | 0 | 0 | 9 | 0 | 0 | 9 | 0 | 0 | 8 | 0 | 0 |
| | TOTL TRIHALOMETHANES | 12 | 2 | 3 | 12 | 11 | 0 | 1 | 1 | 0 | 9 | 9 | 0 | 9 | 0 | 1 | 8 | 8 | 0 |
| *TOTAL SCAN VOLATILES | | 348 | 9 | 29 | 348 | 44 | 41 | 29 | 4 | 4 | 261 | 36 | 26 | 261 | 0 | 9 | 232 | 32 | 10 |
| *TOTAL GROUP ORGANIC | | 1171 | 15 | 40 | 1136 | 49 | 56 | 78 | 4 | 4 | 650 | 36 | 29 | 857 | 3 | 13 | 828 | 33 | 13 |
| TOTAL | | 1770 | 432 | 141 | 1768 | 432 | 190 | 175 | 72 | 24 | 1488 | 627 | 161 | 1300 | 296 | 94 | 1301 | 351 | 93 |

**KEY TO TABLE 5 and 6**

A ONTARIO DRINKING WATER OBJECTIVES (ODWO)

1. Maximum Acceptable Concentration (MAC)

1+. MAC for Total Trihalomethanes

1*. MAC for Bacteriological Analyses
Poor water quality is indicated when :
- total coliform counts > 0 < 5
- P/A Bottle Test is present after 48 hours
- Aeromonas organisms are detected in more than 25% of samples in a single submission or in successive submissions from the same sampling site
- Pseudomonas Aeruginosa, Staphylococcus Aureus and members of the Fecal Streptococcus group should not be detected in any sample
- Standard Plate Count should not exceed 500 organisms per ml at 35 $^{0}$C within 48 hours

2. Interim Maximum Acceptable Concentration (IMAC)
3. Maximum Desirable Concentration (MDC)
4. Aesthetic or Recommended Operational Guideline
- hardness levels between 80 and 100 mg/L as calcium carbonate are considered to provide an acceptable balance between corrosion and incrustation, water supplies with a hardness >200 mg/L are considered poor and those in excess of 500 mg/L are unacceptable.

B HEALTH & WELFARE CANADA (H&W)

1. Maximum Acceptable Concentration (MAC)
2. Proposed MAC
3. Interim MAC
4. Aesthetic Objective (AO) (for xylenes, a total)

C WORLD HEALTH ORGANIZATION (WHO)

1. Guideline Value (GV)
2. Tentative GV
3. Aesthetic GV

D US ENVIRONMENTAL PROTECTION AGENCY (EPA)

1. Maximum Contaminant Level (MCL)
2. Suggested No-Adverse Effect Level (SNAEL)
3. Lifetime Health Advisory
4. EPA Ambient Water Quality Criteria
5. Maximum Contaminant Level Goal (MCLG)

F EUROPEAN ECONOMIC COMMUNITY (EEC)

1. Health Related Guideline Level
2. Aesthetic Guideline Level
3. Maximum Admissable Concentration (MADC)

G CALIFORNIA STATE DEPARTMENT OF HEALTH-GUIDELINE VALUE

H USSR MAXIMUM PERMISSIBLE CONCENTRATION

I NEW YORK STATE AMBIENT WATER GUIDELINE

N/A NONE AVAILABLE

## INTERPRETATION OF DATA

The interpretation of analytical results that are obtained from measurements near the limit of detection of the measurement process is subject to greater uncertainty than those at higher concentrations. The principle areas of concern relate to whether the substance has actually been detected, whether it has been properly identified, and whether it is an artifact of the measurement process. In other words, false positives can be caused by the instrumentation or the test procedures used, when in fact these compounds are not present in the sample.

There are several methods to treat data from such measurements:
1. Exclude the low-level data because of this uncertainty factor. Studies of long-term environmental trends and modelling may however, be adversely affected by the exclusion of such data.
2. Qualify these data so the user is aware of the greater uncertainty associated with their use.

For the Drinking Water Surveillance Program, measurements near the limit of detection of the measurement process are reported with the code "<T". Results qualified by "W" indicate a zero measurement. These results are reported for purposes of modelling and long-term trend analysis and no significance should be attributed to a single determination of a substance below "T" (a single determination may well be a false positive). Repeat analysis or additional data are needed before it can be stated with certainty that the substance in question was truly present. On the other hand, it is less likely that repeated detection of a substance at or near the limit of detection at a specific location is solely due to an artifact in the measurement system, and more likely represents a true positive. The average of such data however, is still only an estimate of the amount of substance present subject to the possible biases of the method used.

## LABORATORY RESULTS, REMARK DESCRIPTIONS

| | |
|---|---|
| . | No Sample Taken |
| BDL | Below Minimum Measurable Amount |
| <T | Greater Than Detection Limit But Not Confident (SEE INTERPRETATION OF RESULTS ABOVE) |
| > | Results Are Greater Than The Upper Limit |
| <=> | Approximate Result |
| !CS | No Data: Contamination Suspected |
| !IL | No Data: Sample Incorrectly Labelled |
| !IS | No Data: Insufficient Sample |
| !IV | No Data: Inverted Septum |
| !LA | No Data: Laboratory Accident |
| !LD | No Data: Test Queued After Sample Discarded |

| | |
|---|---|
| !IS | No Data: Insufficient Sample |
| !LA | No Data: Laboratory Accident |
| !LD | No Data: Test Queued After Sample Discarded |
| !NA | No Data: No Authorization To Perform Reanalysis |
| !NP | No Data: No Procedure |
| !NR | No Data: Sample Not Received |
| !OP | No Data: Obscured Plate |
| !QU | No Data: Quality Control Unacceptable |
| !PE | No Data: Procedural Error - Sample Discarded |
| !PH | No Data: Sample pH Outside Valid Range |
| !RE | No Data: Received Empty |
| !RO | No Data: See Attached Report (no numeric results) |
| !SM | No Data: Sample Missing |
| !SS | No Data: Send Separate Sample Properly Preserved |
| !UI | No Data: Indeterminant Interference |
| !TX | No Data: Time Expired |
| A3C | Approximate, Total Count Exceeded 300 Colonies |
| APL | Additional Peak, Large, Not Priority Pollutant |
| APS | Additional Peak, Less Than, Not Priority Pollutant |
| CIC | Possible Contamination, Improper Cap |
| CRO | Calculated Result Only |
| PPS | Test Performed On Preserved Sample |
| RMP | P and M-Xylene Not Separated |
| RRV | Rerun Verification |
| RVU | Reported Value Unusual |
| SPS | Several Peaks, Small, Not Priority Pollutant |
| UCR | Unreliable: Could Not Confirm By Reanalysis |
| UCS | Unreliable: Contamination Suspected |
| UIN | Unreliable: Indeterminant Interference |
| XP | Positive After X Number of Hours |

T# (T06) Result Taken After # Hours

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| | | | SITE 1 | | SITE 2 | | | |
| TYPE | RAW | TREATED | STANDING | FREE FLOW | STANDING | FREE FLOW | RAW | TREATED |
| BACTERIOLOGICAL | | | | | | | | |
| FECAL COLIFORM MF (CT/100ML ) | | | DET'N LIMIT = 0 | GUIDELINE = 0 (A1) | | | | |
| JAN | BDL | . | . | . | . | . | 26 T24 | . |
| FEB | BDL | . | . | . | . | . | 96 T24 | . |
| MAR | 1 | . | . | . | . | . | 12 | . |
| APR | BDL | . | . | . | . | . | 3 | . |
| MAY | 0 | . | . | . | . | . | . | . |
| JUN | 1 | . | . | . | . | . | . | . |
| JUL | 0 | . | . | . | . | . | . | . |
| AUG | 40 | . | . | . | . | . | 5 | . |
| SEP | 141 | . | . | . | . | . | . | . |
| NOV | BDL | . | . | . | . | . | 8 | . |
| DEC | 4 | . | . | . | . | . | 40 | . |
| STANDRD PLATE CNT MF (CT/ML ) | | | DET'N LIMIT = 0 | GUIDELINE = 500/ML (A1) | | | | |
| JAN | . | 1 <=> | . | . | . | 1 <=> | . | 12 T2 |
| FEB | . | 0 <=> | . | . | . | 9 <=> | . | 40 T4 |
| MAR | . | 3 <=> | . | . | . | 43 T48 | . | 230 |
| APR | . | 12 | . | . | . | . | . | 310 |
| MAY | . | 2 <=> | . | . | . | 56 | . | . |
| JUN | . | 2400 > | . | . | . | 150 | . | . |
| JUL | . | 15950 A3C | . | 2400 > | . | . | . | 24000 > |
| AUG | . | 4700 | . | . | . | . | . | 24000 > |
| SEP | . | 1010 | . | . | . | 490 | . | . |
| NOV | . | 10 | . | . | . | 0 <=> | . | 11 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT<br>PORT DOVER<br>SITE<br>TYPE | RAW | TREATED | SITE 1<br>STANDING | SITE 1<br>FREE FLOW | SITE 2<br>STANDING | SITE 2<br>FREE FLOW | DOANS HOLLOW<br>RAW | DOANS HOLLOW<br>TREATED |
|---|---|---|---|---|---|---|---|---|
| DEC | . | 1 <=> | . | . | . | 6 <=> | . | 230 |
| TOTAL COLIFORM MF (CT/100ML ) | | DET'N LIMIT = 0 | | GUIDELINE = 5/100ML(A1) | | | | |
| JAN | 180 <=> | 0 T24 | . | . | . | 0 T06 | 520 A3C | 0 T24 |
| FEB | 210 A3C | 0 R48 | . | . | . | 0 T06 | 620 A3C | 0 T48 |
| MAR | 440 | 0 | . | . | . | 0 T48 | 3800 A3C | 0 |
| APR | BDL | 0 | . | . | . | . | 38 A3C | 0 |
| MAY | BDL | 0 | . | . | . | 0 | . | . |
| JUN | 48 A3C | 0 | . | . | . | 0 | . | . |
| JUL | BDL | 0 A3C | . | 0 A3C | . | . | . | 1 |
| AUG | 96 A3C | 0 | . | . | . | . | 430 A3C | 0 A3C |
| SEP | 1040 A3C | 0 | . | . | . | 0 | . | . |
| NOV | BDL | 0 | . | . | . | 0 | 1500 A3C | 0 |
| DEC | 190 | 0 | . | . | . | 0 | 160 <=> | 0 |
| T COLIFORM BCKGRD MF (CT/100ML ) | | DET'N LIMIT = 0 | | GUIDELINE = N/A | | | | |
| JAN | 48000 > | 0 T24 | . | . | . | 0 T06 | 4300 A3C | 1 T24 |
| FEB | 2000 A3C | 0 R48 | . | . | . | 1 T06 | 6100 A3C | 77 T48 |
| MAR | 5400 | 0 | . | . | . | 0 T48 | 44000 A3C | 190 |
| APR | 450 | 0 | . | . | . | . | BDL | 0 |
| MAY | BDL | 0 | . | . | . | 0 | . | . |
| JUN | 5600 A3C | 0 | . | . | . | 0 | . | . |
| JUL | 9600 > | 2400 > | . | 2400 > | . | . | . | 19 |
| AUG | 9600 > | 0 | . | . | . | . | 5500 A3C | 2400 > |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT<br>PORT DOVER<br>SITE | | | SITE 1 | | SITE 2 | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| | RAW | TREATED | | | | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| SEP | 34000 A3C | 0 | . | . | . | 0 | . | . |
| NOV | 1700 | 0 | . | . | . | 0 | 33000 | 1 |
| DEC | 310 | 0 | . | . | . | 0 | 9400 A3C | 2 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| CHEMISTRY (FLD) | | | | | | | | |
| FLD CHLORINE (COMB) (MG/L ) | | | DET'N LIMIT = N/A | GUIDELINE = N/A | | | | |
| JAN | . | .200 | . | . | . | .100 | . | .100 |
| FEB | . | .200 | . | . | .100 | .200 | . | .500 |
| MAR | . | .300 | . | . | . | . | . | .100 |
| APR | . | .300 | . | . | . | . | . | .100 |
| MAY | . | .200 | . | . | .200 | .100 | . | . |
| JUN | .000 | .200 | . | . | .000 | .100 | . | . |
| JUL | . | .200 | .000 | .200 | . | . | . | 1.600 |
| AUG | . | .800 | . | . | . | . | . | 1.400 |
| SEP | . | .200 | . | . | .100 | .100 | . | . |
| OCT | . | .200 | . | . | .000 | .000 | . | .200 |
| NOV | . | .400 | . | . | .000 | .400 | . | .000 |
| DEC | . | .800 | . | . | .200 | .400 | . | .200 |
| FLD CHLORINE FREE (MG/L ) | | | DET'N LIMIT = N/A | GUIDELINE = N/A | | | | |
| JAN | . | .800 | . | . | .100 | .200 | . | 1.200 |
| FEB | . | .800 | . | . | .100 | .200 | . | .100 |
| MAR | . | .500 | . | . | .100 | .200 | . | 1.200 |
| APR | . | .700 | . | . | . | . | . | 1.200 |
| MAY | . | .900 | . | . | .100 | .200 | . | . |
| JUN | .000 | .600 | . | . | .100 | .200 | . | . |
| JUL | . | .200 | .000 | .100 | . | . | . | .200 |
| AUG | . | .400 | . | . | . | . | . | .100 |
| SEP | . | 1.100 | . | . | .100 | .100 | . | . |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| OCT | . | 1.000 | . | . | .100 | .100 | . | 1.500 |
| NOV | . | .600 | . | . | .000 | .200 | . | 1.600 |
| DEC | . | .600 | . | . | .100 | .200 | . | 1.600 |
| FLD CHLORINE (TOTAL) (MG/L ) | | | DET'N LIMIT = N/A | GUIDELINE = N/A | | | | |
| JAN | . | 1.000 | . | . | .100 | .300 | . | 1.300 |
| FEB | . | 1.000 | . | . | .200 | .400 | . | .600 |
| MAR | . | .800 | . | . | .100 | .200 | . | 1.300 |
| APR | . | 1.000 | . | . | . | . | . | 1.300 |
| MAY | . | 1.100 | . | . | .300 | .300 | . | . |
| JUN | .000 | .800 | . | . | .100 | .300 | . | . |
| JUL | . | .400 | .000 | .100 | . | . | . | 1.400 |
| AUG | . | .400 | . | . | . | . | . | 1.500 |
| SEP | . | 1.300 | . | . | .200 | .200 | . | . |
| OCT | . | 1.200 | . | . | .100 | .100 | . | 1.700 |
| NOV | . | 1.000 | . | . | .000 | .200 | . | 1.600 |
| DEC | . | .200 | . | . | .100 | .200 | . | 1.800 |
| FLD PH (DIMNSLESS ) | | | DET'N LIMIT = N/A | GUIDELINE = 6.5-8.5(A4) | | | | |
| JAN | 7.700 | 7.700 | . | . | 7.700 | 7.700 | 7.700 | 7.900 |
| FEB | 7.900 | 7.700 | . | . | 7.700 | 7.770 | 7.500 | 7.700 |
| MAR | 7.900 | 7.600 | . | . | 7.700 | 7.600 | 7.500 | 7.500 |
| APR | 8.100 | 7.900 | . | . | . | . | 7.700 | 7.800 |
| MAY | 8.100 | 7.900 | . | . | 7.700 | 7.700 | . | . |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| JUN | 8.100 | 7.700 | . | . | 7.800 | 7.800 | . | . |
| JUL | 8.100 | 7.900 | 7.800 | 7.700 | . | . | 7.400 | 7.700 |
| AUG | 8.000 | 7.700 | . | . | . | . | 7.500 | 7.700 |
| SEP | 8.100 | 7.900 | . | . | 7.900 | 7.700 | . | . |
| OCT | 7.900 | 7.900 | . | . | 7.900 | 7.800 | 7.500 | 7.500 |
| NOV | 7.900 | 7.800 | . | . | 7.900 | 7.900 | 7.600 | 7.900 |
| DEC | 7.900 | 7.700 | . | . | 7.900 | 7.800 | 7.600 | 7.500 |
| FLD TEMPERATURE (DEG.C ) | | | DET'N LIMIT = N/A | GUIDELINE = 15 (A1) | | | | |
| JAN | 1.500 | 1.700 | . | . | 10.000 | 6.500 | 5.000 | 6.500 |
| FEB | 2.000 | 3.000 | . | . | 9.000 | 6.800 | 7.000 | 7.000 |
| MAR | 6.000 | 5.500 | . | . | 9.000 | 4.800 | 10.000 | 9.000 |
| APR | 7.500 | 9.000 | . | . | . | . | 10.100 | 9.100 |
| MAY | 11.500 | 11.000 | . | . | 13.200 | 10.200 | . | . |
| JUN | 17.000 | 18.000 | . | . | 20.000 | 15.000 | . | . |
| JUL | 21.500 | 22.000 | 23.000 | 18.200 | . | . | 14.000 | 13.000 |
| AUG | 21.000 | 21.000 | . | . | . | . | 13.000 | 13.000 |
| SEP | 16.000 | 18.800 | . | . | 19.000 | 19.000 | . | . |
| OCT | 9.800 | 10.000 | . | . | 16.600 | 15.000 | 9.900 | 9.900 |
| NOV | 4.900 | 6.000 | . | . | 13.000 | 11.200 | 8.000 | 8.000 |
| DEC | 2.000 | 2.200 | . | . | 11.000 | 8.500 | 5.000 | 5.000 |
| FLD TURBIDITY (FTU ) | | | DET'N LIMIT = N/A | GUIDELINE = 1.0 (A1) | | | | |
| JAN | 41.000 | .030 | . | . | .580 | .310 | .750 | .720 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT<br>PORT DOVER<br>SITE | | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| FEB | 3.800 | .080 | . | . | .420 | .490 | .900 | .850 |
| MAR | 7.800 | .020 | . | . | .440 | .400 | 1.330 | .950 |
| APR | 2.200 | .050 | . | . | . | . | . | . |
| MAY | 6.100 | .020 | . | . | .270 | .200 | . | . |
| JUN | 5.900 | .210 | . | . | .320 | .310 | . | . |
| JUL | 2.500 | .120 | .320 | .250 | . | . | 1.120 | 1.000 |
| AUG | 5.000 | .100 | . | . | . | . | 1.000 | .900 |
| SEP | 24.000 | .250 | . | . | .200 | .170 | . | . |
| OCT | 20.000 | .150 | . | . | .250 | .250 | .450 | .450 |
| NOV | 25.000 | .100 | . | . | . | . | 1.000 | 1.000 |
| DEC | 14.500 | .070 | . | . | .300 | .260 | 4.000 | 3.500 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT<br>PORT DOVER<br>SITE<br>TYPE | RAW | TREATED | SITE 1<br>STANDING | SITE 1<br>FREE FLOW | SITE 2<br>STANDING | SITE 2<br>FREE FLOW | DOANS HOLLOW<br>RAW | DOANS HOLLOW<br>TREATED |
|---|---|---|---|---|---|---|---|---|
| CHEMISTRY (LAB) | | | | | | | | |
| ALKALINITY (MG/L ) | | | DET'N LIMIT = .200 | GUIDELINE = 30-500 (A4) | | | | |
| JAN | 106.400 | 103.700 | . | . | 159.700 | 140.300 | 200.100 | 200.700 |
| FEB | 108.800 | 113.500 | . | . | 157.000 | 150.200 | 200.300 | 201.400 |
| MAR | 108.400 | 101.100 | . | . | 127.800 | 148.100 | 186.400 | 186.800 |
| APR | 107.400 | 104.000 | . | . | . | . | 150.700 USD | 195.100 |
| MAY | 102.500 | 97.500 | . | . | 98.400 | 98.600 | . | . |
| JUN | 104.700 | 101.300 | . | . | 107.600 | 102.200 | . | . |
| JUL | 106.400 | 102.900 | 117.800 | 112.400 | . | . | 228.500 | 230.200 |
| AUG | 103.400 | 101.000 | . | . | . | . | 200.800 | 201.300 |
| SEP | 100.200 | 94.200 | . | . | 94.700 | 94.000 | . | . |
| OCT | 105.600 | 102.300 | . | . | 145.200 | 147.000 | 196.000 | 196.300 |
| NOV | 102.000 | 98.700 | . | . | 167.800 | 175.100 | 199.800 | 200.900 |
| DEC | 112.500 | 103.700 | . | . | 141.000 | 138.500 | 182.600 | 191.800 |
| CALCIUM (MG/L ) | | | DET'N LIMIT = .100 | GUIDELINE = 100 (F2) | | | | |
| JAN | 37.400 | 40.000 | . | . | 61.200 | 53.200 | 77.000 | 76.200 |
| FEB | 40.400 | 40.600 | . | . | 58.800 | 56.600 | 76.200 | 77.400 |
| MAR | 42.400 | 41.000 | . | . | 51.400 | 58.800 | 74.400 | 75.200 |
| APR | 39.600 | 39.800 | . | . | . | . | 76.200 | 73.600 |
| MAY | 37.200 | 36.000 | . | . | 37.200 | 38.000 | . | . |
| JUN | 36.800 | 36.600 | . | . | 39.200 | 37.600 | . | . |
| JUL | 39.200 | 40.600 | 45.400 | 42.800 | . | . | 76.000 | 79.400 |
| AUG | 37.800 | 38.800 | . | . | . | . | 77.000 | 74.000 |
| SEP | 37.800 | 37.600 | . | . | 37.800 | 37.800 | . | . |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| OCT | 43.500 | 44.200 | . | . | 61.800 | 62.900 | 81.900 | 82.300 |
| NOV | 38.400 | 39.400 | . | . | 68.600 | 72.000 | 80.000 | 79.800 |
| DEC | 42.500 | 42.800 | . | . | 55.400 | 53.400 | 75.700 | 77.100 |
| CYANIDE (MG/L ) | | | DET'N LIMIT = 0.001 | GUIDELINE = .200 (A1) | | | | |
| JAN | BDL | BDL | . | . | . | BDL | BDL | BDL |
| FEB | BDL | BDL | . | . | . | BDL | BDL | BDL |
| MAR | BDL | BDL | . | . | . | BDL | BDL | BDL |
| APR | BDL | BDL | . | . | . | . | BDL | BDL |
| MAY | BDL | BDL | . | . | . | BDL | . | . |
| JUN | BDL | BDL | . | . | . | BDL | . | . |
| JUL | BDL | BDL | . | BDL | . | . | BDL | BDL |
| AUG | BDL | BDL | . | . | . | . | BDL | BDL |
| SEP | BDL | BDL | . | . | . | BDL | . | . |
| OCT | BDL | BDL | . | . | . | BDL | BDL | BDL |
| NOV | BDL | BDL | . | . | . | BDL | BDL | BDL |
| DEC | BDL | BDL | . | . | . | BDL | BDL | .004 <T |
| CHLORIDE (MG/L ) | | | DET'N LIMIT = .200 | GUIDELINE = 250 (A3) | | | | |
| JAN | 14.400 | 18.500 | . | . | 12.500 | 14.400 | 6.800 | 8.000 |
| FEB | 19.600 | 16.600 | . | . | 13.900 | 14.700 | 6.300 | 7.300 |
| MAR | 16.000 | 19.000 | . | . | 16.600 | 14.300 | 9.400 | 10.800 |
| APR | 14.300 | 17.200 | . | . | . | . | 7.300 | 8.700 |
| MAY | 10.800 | 17.200 | . | . | 17.400 | 17.500 | . | . |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| JUN | 17.700 | 18.400 | . | . | 17.600 | 24.200 | . | . |
| JUL | 15.000 | 18.200 | 17.500 | 18.300 | . | . | 6.800 | 8.300 |
| AUG | 15.100 | 18.800 | . | . | . | . | 6.600 | 8.200 |
| SEP | 14.600 | 18.300 | . | . | 19.000 | 18.500 | . | . |
| OCT | 14.600 | 18.000 | . | . | 14.600 | 14.000 | 7.300 | 9.100 |
| NOV | 14.000 | 17.800 | . | . | 12.600 | 11.900 | 8.000 | 9.500 |
| DEC | 16.800 | 23.000 | . | . | 15.400 | 15.200 | 7.000 | 8.300 |
| COLOUR (HZU ) | | | DET'N LIMIT = .5 | GUIDELINE = 5.0 (A3) | | | | |
| JAN | BDL | BDL | . | . | 2.500 | 1.500 <T | 2.500 | 2.500 |
| FEB | .500 <T | ISM | . | . | 2.000 <T | 2.500 | 3.500 | 3.500 |
| MAR | 3.000 | 1.000 <T | . | . | 2.000 <T | 2.500 | 6.000 | 4.000 |
| APR | 2.000 <T | .500 <T | . | . | . | . | 4.500 | 4.000 |
| MAY | 2.500 | 1.000 <T | . | . | 2.000 <T | 2.000 <T | . | . |
| JUN | 2.500 | 1.000 <T | . | . | 1.500 <T | 2.500 | . | . |
| JUL | 1.500 <T | 1.000 <T | 1.500 <T | 1.500 <T | . | . | 2.000 <T | 2.000 <T |
| AUG | 2.000 <T | .500 <T | . | . | . | . | 2.000 <T | 3.000 |
| SEP | 2.000 <T | 1.500 <T | . | . | 1.000 <T | 1.500 <T | . | . |
| OCT | 2.000 <T | 1.000 <T | . | . | 2.500 | 3.000 | 4.500 | 4.000 |
| NOV | .500 <T | .500 | . | . | ISM | ISM | 3.500 | 3.500 |
| DEC | 1.500 <T | .500 <T | . | . | 2.000 <T | 2.000 <T | 3.000 | 4.500 |
| CONDUCTIVITY (UMHO/CM ) | | | DET'N LIMIT = 1 | GUIDELINE = 400 (F2) | | | | |
| JAN | 292 | 307 | . | . | 429 | 385 | 506 | 512 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| FEB | 327 | 322 | . | . | 429 | 415 | 509 | 514 |
| MAR | 320 | 317 | . | . | 377 | 421 | 499 | 505 |
| APR | 307 | 313 | . | . | . | . | 444 | 517 |
| MAY | 291 | 293 | . | . | 296 | 295 | . | . |
| JUN | 292 | 300 | . | . | 317 | 301 | . | . |
| JUL | 295 | 301 | 338 | 324 | . | . | 494 | 509 |
| AUG | 293 | 304 | . | . | . | . | 503 | 510 |
| SEP | 292 | 294 | . | . | 295 | 293 | . | . |
| OCT | 296 | 304 | . | . | 399 | 400 | 508 | 516 |
| NOV | 285 | 295 | . | . | 459 | 472 | 517 | 525 |
| DEC | 328 | 333 | . | . | 393 | 392 | 490 | 507 |
| FLUORIDE (MG/L ) | | | DET'N LIMIT = .01 | GUIDELINE = 2.400 (A1) | | | | |
| JAN | .160 | .100 | . | . | .100 | .100 | .080 | .100 |
| FEB | .120 | .120 | . | . | .100 | .100 | .100 | .100 |
| MAR | .120 | .120 | . | . | .120 | .100 | .100 | .100 |
| APR | .120 | .100 | . | . | . | . | .080 | .080 |
| MAY | .120 | .120 | . | . | .120 | .120 | . | . |
| JUN | .100 | .120 | . | . | .140 | .140 | . | . |
| JUL | .120 | .120 | .100 | .100 | . | . | .080 | .080 |
| AUG | .140 | .140 | . | . | . | . | .100 | .100 |
| SEP | .120 | .120 | . | . | .120 | .120 | . | . |
| OCT | .100 | .060 | . | . | .080 | .100 | .080 | .080 |
| NOV | .100 | .100 | . | . | ISN | ISN | .080 | .080 |
| DEC | .140 | .080 | . | . | .080 | .080 | .060 | .080 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | | | | | | | | |
| TYPE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| HARDNESS (MG/L ) | | | DET'N LIMIT = .500 | GUIDELINE = 80-100 (A4) | | | | |
| JAN | 129.000 | 137.000 | . | . | 214.000 | 184.000 | 268.000 | 268.000 |
| FEB | 140.000 | 140.000 | . | . | 204.000 | 197.000 | 266.000 | 270.000 |
| MAR | 144.000 | 140.000 | . | . | 176.000 | 202.000 | 255.000 | 258.000 |
| APR | 134.000 | 135.000 | . | . | . | . | 264.000 | 258.000 |
| MAY | 128.000 | 125.000 | . | . | 128.000 | 130.000 | . | . |
| JUN | 126.000 | 126.000 | . | . | 135.000 | 129.000 | . | . |
| JUL | 133.000 | 138.000 | 156.000 | 146.000 | . | . | 266.000 | 275.000 |
| AUG | 129.000 | 133.000 | . | . | . | . | 269.000 | 259.000 |
| SEP | 131.000 | 129.000 | . | . | 130.000 | 130.000 | . | . |
| OCT | 142.000 | 144.600 | . | . | 208.000 | 210.800 | 280.300 | 282.300 |
| NOV | 133.000 | 135.000 | . | . | 238.000 | 248.000 | 277.000 | 277.000 |
| DEC | 144.700 | 144.900 | . | . | 189.800 | 184.800 | 262.300 | 268.000 |
| LANGELIERS INDEX (DIMNSLESS ) | | | DET'N LIMIT = N/A | GUIDELINE = N/A | | | | |
| JAN | .284 | .266 | . | . | .746 | .623 | 1.016 | .952 |
| FEB | .459 | .580 | . | . | .861 | .797 | 1.082 | 1.101 |
| MAR | .369 | .365 | . | . | .619 | .737 | .971 | .946 |
| APR | .617 | .534 | . | . | . | . | .905 | 1.015 |
| MAY | .346 | .269 | . | . | .266 | .277 | . | . |
| JUN | .470 | .390 | . | . | .442 | .395 | . | . |
| JUL | .603 | .502 | .723 | .649 | . | . | 1.119 | 1.140 |
| AUG | .516 | .343 | . | . | . | . | .988 | .981 |
| SEP | .432 | .393 | . | . | .377 | .364 | . | . |
| OCT | .445 | .525 | . | . | .732 | .795 | 1.084 | 1.006 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| NOV | .380 | .383 | . | . | .804 | .722 | 1.081 | 1.062 |
| DEC | .555 | .503 | . | . | .822 | .779 | 1.011 | 1.058 |
| MAGNESIUM (MG/L ) | | | DET'N LIMIT = .050 | GUIDELINE = 30 (F2) | | | | |
| JAN | 8.700 | 8.900 | . | . | 15.000 | 12.400 | 18.500 | 19.000 |
| FEB | 9.500 | 9.400 | . | . | 13.900 | 13.400 | 18.400 | 18.700 |
| MAR | 9.300 | 9.100 | . | . | 11.500 | 13.500 | 16.700 | 16.900 |
| APR | 8.600 | 8.700 | . | . | . | . | 17.900 | 18.000 |
| MAY | 8.600 | 8.600 | . | . | 8.500 | 8.500 | . | . |
| JUN | 8.400 | 8.500 | . | . | 8.900 | 8.500 | . | . |
| JUL | 8.600 | 8.800 | 10.200 | 9.600 | . | . | 18.400 | 18.600 |
| AUG | 8.400 | 8.800 | . | . | . | . | 18.600 | 18.100 |
| SEP | 8.800 | 8.600 | . | . | 8.700 | 8.500 | . | . |
| OCT | 8.100 | 8.300 | . | . | 13.050 | 13.000 | 18.450 | 18.700 |
| NOV | 8.900 | 9.000 | . | . | 16.100 | 16.600 | 18.800 | 18.900 |
| DEC | 9.400 | 9.250 | . | . | 12.500 | 12.500 | 17.850 | 18.400 |
| SODIUM (MG/L ) | | | DET'N LIMIT = .200 | GUIDELINE = 200 (C3) | | | | |
| JAN | 8.000* | 8.000 | . | . | 6.200 | 7.000 | 3.800 | 4.400 |
| FEB | 9.800 | 9.600 | . | . | 7.200 | 7.600 | 4.400 | 5.000 |
| MAR | 8.800 | 9.200 | . | . | 8.200 | 7.200 | 5.000 | 6.000 |
| APR | 8.400 | 8.200 | . | . | . | . | 4.000 | 5.000 |
| MAY | 8.400 | 8.000 | . | . | 8.600 | 8.400 | . | . |
| JUN | 8.400 | 8.400 | . | . | 8.800 | 8.400 | . | . |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | | | SITE 1 | | SITE 2 | | | |
| TYPE | RAW | TREATED | STANDING | FREE FLOW | STANDING | FREE FLOW | RAW | TREATED |
| JUL | 8.200 | 8.800 | 9.000 | 8.800 | . | . | 3.400 | 5.000 |
| AUG | 8.600 | 8.800 | . | . | . | . | 3.600 | 4.800 |
| SEP | 8.600 | 9.000 | . | . | 8.600 | 8.400 | . | . |
| OCT | 8.000 | 7.900 | . | . | 6.900 | 6.600 | 3.700 | 4.900 |
| NOV | 7.400 | 7.800 | . | . | 6.400 | 6.200 | 4.000 | 5.200 |
| DEC | 7.300 | 6.200 | . | . | 5.300 | 5.300 | 1.700 | 2.900 |
| AMMONIUM TOTAL (MG/L ) | | DET'N LIMIT = 0.002 | | GUIDELINE = .05 (F2) | | | | |
| JAN | .028 | .034 | . | . | .040 | .046 | .016 | .006 |
| FEB | .008 <T | .002 <T | . | . | .008 <T | .002 <T | .008 <T | .002 <T |
| MAR | .020 | BDL | . | . | BDL | BDL | .006 <T | .002 <T |
| APR | .024 | .004 <T | . | . | . | . | .006 <T | BDL |
| MAY | .056 | BDL | . | . | .002 <T | BDL | . | . |
| JUN | BDL | .002 <T | . | . | .070 | .006 <T | . | . |
| JUL | .046 | .012 | .084 | .016 | . | . | .012 | .014 |
| AUG | .014 | BDL | . | . | . | . | BDL | BDL |
| SEP | .004 <T | BDL | . | . | .060 | BDL | . | . |
| OCT | .014 | .002 <T | . | . | .002 <T | .002 <T | .008 <T | BDL |
| NOV | .012 | BDL | . | . | .024 UAL | .006 <T | .010 | BDL |
| DEC | BDL | BDL | . | . | .044 | BDL | BDL | BDL |
| NITRITE (MG/L ) | | DET'N LIMIT = 0.001 | | GUIDELINE = 1.000 (A1) | | | | |
| JAN | .005 | .003 <T | . | . | .003 <T | .002 <T | .011 | .003 <T |
| FEB | BDL | .003 <T | . | . | .001 <T | .001 <T | .010 | BDL |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| MAR | .007 | .004 <T | . | . | .006 | .005 | .014 | .005 |
| APR | .004 <T | .003 <T | . | . | . | . | .013 | .003 <T |
| MAY | .003 <T | BDL | . | . | .002 <T | BDL | . | . |
| JUN | .041 | .003 <T | . | . | .003 <T | .005 | . | . |
| JUL | .004 <T | .005 | .003 <T | .003 <T | . | . | .009 | .004 <T |
| AUG | .004 <T | .001 <T | . | . | . | . | .014 | .002 <T |
| SEP | .002 <T | .001 <T | . | . | .001 <T | BDL | . | . |
| OCT | .003 <T | .001 <T | . | . | .002 <T | .001 <T | .012 | .001 <T |
| NOV | .002 <T | .001 <T | . | . | BDL | .003 <T | .010 | .001 <T |
| DEC | .004 <T | .003 <T | . | . | .003 <T | .001 <T | .024 | .004 <T |
| TOTAL NITRATES (MG/L ) | | DET'N LIMIT = .020 | | GUIDELINE = 10.000 (A1) | | | | |
| JAN | .140 | .170 | . | . | 1.050 | .715 | 1.680 | 1.680 |
| FEB | .245 | .250 | . | . | 1.060 | .940 | 1.760 | 1.760 |
| MAR | .400 | .360 | . | . | .760 | 1.070 | 1.670 | 1.640 |
| APR | .160 | .180 | . | . | . | . | 1.660 | 1.650 |
| MAY | .105 | .100 | . | . | .120 | .095 | . | . |
| JUN | .100 | .085 | . | . | .250 | .105 | . | . |
| JUL | .040 | .095 | .355 | .195 | . | . | 1.390 | 1.640 |
| AUG | .050 | .070 | . | . | . | . | 1.520 | 1.560 |
| SEP | .175 | .120 | . | . | .175 | .120 | . | . |
| OCT | .220 | .245 | . | . | .815 | .870 | 1.700 | 1.670 |
| NOV | .140 | .155 | . | . | 1.380 UAL | 1.450 UAL | 1.750 | 1.750 |
| DEC | .430 | .245 | . | . | .835 | .800 | 1.850 | 1.830 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT<br>PORT DOVER<br>SITE<br>TYPE | RAW | TREATED | SITE 1<br>STANDING | SITE 1<br>FREE FLOW | SITE 2<br>STANDING | SITE 2<br>FREE FLOW | DOANS HOLLOW<br>RAW | DOANS HOLLOW<br>TREATED |
|---|---|---|---|---|---|---|---|---|
| NITROGEN TOT KJELD (MG/L ) | | | DET'N LIMIT = .020 | GUIDELINE = N/A | | | | |
| JAN | .825 | .150 | . | . | .260 | .130 | .120 | .100 |
| FEB | .140 | .230 | . | . | .160 | .120 | .050 <T | .050 <T |
| MAR | .280 | .230 | . | . | .230 | .160 | .210 | .180 |
| APR | .310 | .210 | . | . | . | . | .140 | .100 |
| MAY | .280 | .190 | . | . | .270 | .190 | . | . |
| JUN | .320 | .180 | . | . | .320 | .200 | . | . |
| JUL | .320 | .210 | .350 | .190 | . | . | .140 | .110 |
| AUG | .300 | .200 | . | . | . | . | .120 | .100 |
| SEP | .340 | .180 | . | . | .320 | .200 | . | . |
| OCT | .260 | .160 | . | . | .190 | .150 | .130 | .090 <T |
| NOV | .210 | .170 | . | . | .230 | .090 <T | .120 | .090 <T |
| DEC | .290 | .130 | . | . | .240 | .090 <T | .150 | .150 |
| PH (DIMISLESS ) | | | DET'N LIMIT = N/A | GUIDELINE = 6.5-8.5(A4) | | | | |
| JAN | 8.120 | 8.090 | . | . | 8.210 | 8.200 | 8.290 | 8.230 |
| FEB | 8.260 | 8.360 | . | . | 8.350 | 8.320 | 8.360 | 8.370 |
| MAR | 8.150 | 8.190 | . | . | 8.250 | 8.250 | 8.290 | 8.260 |
| APR | 8.430 | 8.360 | . | . | . | . | 8.300 | 8.320 |
| MAY | 8.200 | 8.160 | . | . | 8.140 | 8.140 | . | . |
| JUN | 8.320 | 8.260 | . | . | 8.260 | 8.250 | . | . |
| JUL | 8.420 | 8.320 | 8.440 | 8.410 | . | . | 8.340 | 8.340 |
| AUG | 8.360 | 8.190 | . | . | . | . | 8.260 | 8.270 |
| SEP | 8.290 | 8.280 | . | . | 8.260 | 8.250 | . | . |
| OCT | 8.220 | 8.310 | . | . | 8.230 | 8.280 | 8.340 | 8.260 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| NOV | 8.220 | 8.230 | . | . | 8.200 | 8.080 | 8.340 | 8.320 |
| DEC | 8.320 | 8.300 | . | . | 8.380 | 8.360 | 8.330 | 8.350 |
| PHOSPHORUS FIL REACT (MG/L ) | | | DET'N LIMIT = .0005 | | GUIDELINE = N/A | | | |
| JAN | .003 | .000 <T | . | . | . | . | .001 <T | .002 <T |
| FEB | .000 <T | .001 <T | . | . | . | . | BDL | .001 <T |
| MAR | BDL | BDL | . | . | . | . | .002 <T | .006 |
| APR | .000 <T | BDL | . | . | . | . | BDL | .001 <T |
| MAY | BDL | BDL | . | . | . | . | . | . |
| JUN | .001 <T | BDL | . | . | . | . | . | . |
| JUL | .000 <T | BDL | . | . | . | . | .002 | .000 <T |
| AUG | .000 <T | BDL | . | . | . | . | .000 <T | .000 <T |
| SEP | .000 <T | BDL | . | . | . | . | . | . |
| OCT | .002 | .001 | . | . | . | . | .001 | .001 |
| NOV | BDL | BDL | . | . | . | . | BDL | .001 <T |
| DEC | .000 <T | BDL | . | . | . | . | BDL | .000 <T |
| PHOSPHORUS TOTAL (MG/L ) | | | DET'N LIMIT = .002 | | GUIDELINE = .40 (F2) | | | |
| JAN | .358 | .004 | . | . | . | . | .005 <T | .006 <T |
| FEB | .003 <T | .014 | . | . | . | . | .002 <T | .003 <T |
| MAR | .013 | .002 <T | . | . | . | . | .009 <T | .012 |
| APR | .040 | .003 <T | . | . | . | . | .003 <T | .004 <T |
| MAY | .020 | .002 <T | . | . | . | . | . | . |
| JUN | .019 | .002 <T | . | . | . | . | . | . |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | | | SITE 1 | | SITE 2 | | | |
| TYPE | RAW | TREATED | STANDING | FREE FLOW | STANDING | FREE FLOW | RAW | TREATED |
| JUL | .016 | .002 <T | . | . | . | . | .004 <T | .004 <T |
| AUG | .013 | .003 <T | . | . | . | . | .005 <T | .005 <T |
| SEP | .041 | .005 <T | . | . | . | . | . | . |
| OCT | .030 | .002 <T | . | . | . | . | .004 <T | .010 |
| NOV | .009 <T | .007 <T | . | . | . | . | .005 <T | .004 <T |
| DEC | .050 | .002 <T | . | . | . | . | .008 <T | .018 |
| SULPHATE (MG/L ) | | | DET'N LIMIT = .200 | GUIDELINE = 500. (A3) | | | | |
| JAN | 23.020 | 23.880 | . | . | 47.010 | 39.100 | 65.360 | 65.230 |
| FEB | 22.400 | 21.360 | . | . | 42.970 | 40.010 | 62.870 | 63.740 |
| MAR | 23.420 | 22.850 | . | . | 33.910 | 42.850 | 60.730 | 57.210 |
| APR | 22.760 | 23.140 | . | . | . | . | 62.570 | 62.670 |
| MAY | 23.740 | 24.010 | . | . | 24.470 | 24.000 | . | . |
| JUN | 22.170 | 23.090 | . | . | 25.190 | 23.130 | . | . |
| JUL | 21.740 | 23.120 | 27.710 | 25.280 | . | . | 62.010 | 61.750 |
| AUG | 24.440 | 25.640 | . | . | . | . | 63.920 | 63.880 |
| SEP | 24.050 | 24.040 | . | . | 23.720 | 23.500 | . | . |
| OCT | 23.460 | 24.000 | . | . | 41.700 | 43.620 | 65.050 | 64.490 |
| NOV | 22.770 | 23.860 | . | . | 54.640 | 57.780 | 67.710 | 67.480 |
| DEC | 27.080 | 26.220 | . | . | 39.200 | 39.130 | 64.340 | 65.610 |
| TURBIDITY (FTU ) | | | DET'N LIMIT = .02 | GUIDELINE = 1.00 (A1) | | | | |
| JAN | 90.000 | .380 | . | . | .840 | .550 | .670 | .850 |
| FEB | .250 | 2.600 | . | . | .530 | .590 | 1.190 | .740 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT<br>PORT DOVER<br>SITE<br>TYPE | RAW | TREATED | SITE 1<br>STANDING | SITE 1<br>FREE FLOW | SITE 2<br>STANDING | SITE 2<br>FREE FLOW | DOANS HOLLOW<br>RAW | DOANS HOLLOW<br>TREATED |
|---|---|---|---|---|---|---|---|---|
| MAR | 2.800 | .390 | . | . | .440 | .500 | 1.180 | .500 |
| APR | 10.200 | .850 | . | . | . | . | 1.030 | .880 |
| MAY | .130 | .190 | . | . | .290 | .250 | . | . |
| JUN | 2.800 | .180 | . | . | .440 | .500 | . | . |
| JUL | 4.700 | .490 | .530 | .510 | . | . | 2.100 | .970 |
| AUG | 1.200 | .330 | . | . | . | . | .780 | .920 |
| SEP | 19.300 | .490 | . | . | .540 | .480 | . | . |
| OCT | 12.600 | .240 <T | . | . | .420 | .310 | .430 | 1.190 |
| NOV | 3.600 | .310 | . | . | .620 | .390 | .610 | .970 |
| DEC | 16.500 | .250 | . | . | .840 | .450 | 3.900 | 3.700 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT<br>PORT DOVER<br>TYPE | RAW | TREATED | SITE 1<br>STANDING | SITE 1<br>FREE FLOW | SITE 2<br>STANDING | SITE 2<br>FREE FLOW | DOANS HOLLOW<br>RAW | DOANS HOLLOW<br>TREATED |
|---|---|---|---|---|---|---|---|---|
| METALS | | | | | | | | |
| SILVER (UG/L ) | | | DET'N LIMIT = .020 | GUIDELINE = 50. (A1) | | | | |
| JAN | BDL | BDL | . | . | BDL | BDL | BDL | BDL |
| FEB | BDL | BDL | . | . | BDL | BDL | BDL | BDL |
| MAR | BDL | BDL | . | . | BDL | BDL | BDL | BDL |
| APR | .040 <T | .080 <T | . | . | . | . | BDL | BDL |
| MAY | BDL | BDL | . | . | BDL | BDL | . | . |
| JUN | BDL | BDL | . | . | BDL | BDL | . | . |
| JUL | BDL | BDL | BDL | BDL | . | . | BDL | BDL |
| AUG | BDL | BDL | . | . | . | . | BDL | BDL |
| SEP | BDL | BDL | . | . | BDL | BDL | . | . |
| OCT | BDL | BDL | . | . | BDL | BDL | .050 <T | BDL |
| NOV | BDL | BDL | . | . | BDL | BDL | BDL | BDL |
| DEC | BDL | BDL | . | . | ISM | BDL | BDL | BDL |
| ALUMINUM (UG/L ) | | | DET'N LIMIT = .050 | GUIDELINE = 100.(A4) | | | | |
| JAN | 4200.000 | 47.000 | . | . | 30.000 | 26.000 | 12.000 | 8.700 |
| FEB | 40.000 | 38.000 | . | . | 24.000 | 26.000 | 9.900 | 11.000 |
| MAR | 45.000 | 58.000 | . | . | 33.000 | 33.000 | 21.000 | 20.000 |
| APR | 62.000 | 100.000 | . | . | . | . | 14.000 | 15.000 |
| MAY | 37.000 | 180.000 | . | . | 180.000 | 180.000 | . | . |
| JUN | 150.000 | 290.000 | . | . | 180.000 | 210.000 | . | . |
| JUL | 110.000 | 250.000 | 180.000 | 180.000 | . | . | 12.000 | 12.000 |
| AUG | 48.000 | 250.000 | . | . | . | . | 10.000 | 10.000 |
| SEP | 170.000 | 190.000 | . | . | 170.000 | 180.000 | . | . |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT<br>PORT DOVER<br>SITE<br>TYPE | RAW | TREATED | SITE 1<br>STANDING | SITE 1<br>FREE FLOW | SITE 2<br>STANDING | SITE 2<br>FREE FLOW | DOANS HOLLOW<br>RAW | DOANS HOLLOW<br>TREATED |
|---|---|---|---|---|---|---|---|---|
| OCT | 130.000 | 110.000 | . | . | 58.000 | 51.000 | 7.800 | 8.100 |
| NOV | 41.000 | 66.000 | . | . | 39.000 | 32.000 | 11.000 | 11.000 |
| DEC | 130.000 | 45.000 | . | . | ISM | 35.000 | 42.000 | 3.000 |
| ARSENIC (UG/L ) | | | DET'N LIMIT = 0.050 | | GUIDELINE = 50.0 (A1) | | | |
| JAN | 2.700 | .280 <T | . | . | .230 <T | .220 <T | .520 <T | .510 <T |
| FEB | .600 <T | 1.200 | . | . | .760 <T | .820 <T | 1.000 <T | .930 <T |
| MAR | 1.100 | .830 <T | . | . | .880 <T | .790 <T | .800 <T | .850 <T |
| APR | 1.300 | .670 <T | . | . | . | . | .560 <T | .750 <T |
| MAY | 1.400 | 1.200 | . | . | .560 <T | .640 <T | . | . |
| JUN | 1.300 | .780 <T | . | . | 1.100 | .880 <T | . | . |
| JUL | 1.200 | .770 <T | .770 <T | .890 <T | . | . | .990 <T | .970 <T |
| AUG | 1.200 | .960 <T | . | . | . | . | 1.200 | 1.100 |
| SEP | 1.200 | .510 <T | . | . | .420 <T | .450 <T | . | . |
| OCT | .660 <T | .270 <T | . | . | .260 <T | .410 <T | .530 <T | .470 <T |
| NOV | .550 <T | .150 <T | . | . | .240 <T | .490 <T | .510 <T | .470 <T |
| DEC | .860 <T | .210 <T | . | . | ISM | .360 <T | .810 <T | .190 <T |
| BARIUM (UG/L ) | | | DET'N LIMIT = 0.020 | | GUIDELINE = 1000. (A1) | | | |
| JAN | 34.000 | 22.000 | . | . | 52.000 | 47.000 | 85.000 | 91.000 |
| FEB | 23.000 | 24.000 | . | . | 48.000 | 51.000 | 86.000 | 89.000 |
| MAR | 25.000 | 22.000 | . | . | 42.000 | 52.000 | 75.000 | 75.000 |
| APR | 24.000 | 22.000 | . | . | . | . | 81.000 | 81.000 |
| MAY | 23.000 | 23.000 | . | . | 27.000 | 26.000 | . | . |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| JUN | 24.000 | 24.000 | . | . | 36.000 | 30.000 | . | . |
| JUL | 25.000 | 25.000 | 45.000 | 39.000 | . | . | 100.000 | 100.000 |
| AUG | 24.000 | 23.000 | . | . | . | . | 93.000 | 92.000 |
| SEP | 24.000 | 23.000 | . | . | 30.000 | 28.000 | . | . |
| OCT | 26.000 | 24.000 | . | . | 55.000 | 53.000 | 87.000 | 89.000 |
| NOV | 23.000 | 22.000 | . | . | 60.000 | 59.000 | 83.000 | 82.000 |
| DEC | 27.000 | 24.000 | . | . | ISN | 48.000 | 88.000 | 14.000 |
| BORON (UG/L ) | | | DET'N LIMIT = 0.200 | GUIDELINE = 5000. (A1) | | | | |
| JAN | 110.000 | 89.000 | . | . | 20.000 <T | 64.000 | 7.900 <T | 8.200 <T |
| FEB | 64.000 | 41.000 | . | . | 42.000 | 78.000 | 52.000 | 94.000 |
| MAR | 200.000 | 54.000 | . | . | 240.000 | 320.000 | 270.000 | 300.000 |
| APR | 190.000 | 130.000 | . | . | . | . | 96.000 | 120.000 |
| MAY | 29.000 | 40.000 | . | . | 26.000 | 41.000 | . | . |
| JUN | 35.000 | 36.000 | . | . | 51.000 | 38.000 | . | . |
| JUL | 41.000 | 46.000 | 41.000 | 46.000 | . | . | 46.000 | 40.000 |
| AUG | 54.000 | 52.000 | . | . | . | . | 66.000 | 67.000 |
| SEP | 46.000 | 32.000 | . | . | 44.000 | 38.000 | . | . |
| OCT | 27.000 | 23.000 | . | . | 24.000 | 22.000 | 15.000 <T | 24.000 |
| NOV | 22.000 | 22.000 | . | . | 17.000 <T | 15.000 <T | 12.000 <T | 11.000 <T |
| DEC | 27.000 | 24.000 | . | . | ISN | 20.000 <T | 8.400 <T | 9.200 <T |
| BERYLLIUM (UG/L ) | | | DET'N LIMIT = 0.010 | GUIDELINE = N/A | | | | |
| JAN | .140 <T | BDL | . | . | BDL | BDL | BDL | BDL |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | | | SITE 1 | | SITE 2 | | | |
| TYPE | RAW | TREATED | STANDING | FREE FLOW | STANDING | FREE FLOW | RAW | TREATED |
| FEB | .060 <T | .140 <T | . | . | .140 <T | .300 <T | .230 <T | .330 <T |
| MAR | .260 <T | BDL | . | . | .260 <T | .180 <T | .390 <T | .340 <T |
| APR | .330 <T | .080 <T | . | . | . | . | .060 <T | .140 <T |
| MAY | .060 <T | .080 <T | . | . | BDL | .110 <T | . | . |
| JUN | .070 <T | .050 <T | . | . | .080 <T | .050 <T | . | . |
| JUL | .110 <T | .090 <T | .110 <T | .110 <T | . | . | .130 <T | .070 <T |
| AUG | .140 <T | .180 <T | . | . | . | . | .250 <T | .200 <T |
| SEP | .080 <T | .030 <T | . | . | .020 <T | .050 <T | . | . |
| OCT | BDL | BDL | . | . | .030 <T | BDL | BDL | .030 <T |
| NOV | BDL | .030 <T | . | . | BDL | BDL | BDL | BDL |
| DEC | BDL | BDL | . | . | ISM | BDL | BDL | BDL |

CADMIUM (UG/L ) DET'N LIMIT = 0.050 GUIDELINE = 5.000 (A1)

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| JAN | .070 <T | BDL | . | . | .080 <T | BDL | BDL | BDL |
| FEB | BDL | BDL | . | . | BDL | BDL | BDL | BDL |
| MAR | BDL | BDL | . | . | BDL | BDL | BDL | BDL |
| APR | BDL | BDL | . | . | . | . | BDL | BDL |
| MAY | BDL | .180 <T | . | . | .250 <T | .070 <T | . | . |
| JUN | .100 <T | .080 <T | . | . | .180 <T | BDL | . | . |
| JUL | .150 <T | .180 <T | .150 <T | .170 <T | . | . | .110 <T | .120 <T |
| AUG | .060 <T | .060 <T | . | . | . | . | BDL | BDL |
| SEP | BDL | BDL | . | . | .110 <T | BDL | . | . |
| OCT | BDL | BDL | . | . | .190 <T | BDL | BDL | BDL |
| NOV | BDL | BDL | . | . | BDL | BDL | BDL | BDL |
| DEC | BDL | BDL | . | . | ISM | BDL | BDL | BDL |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| COBALT (UG/L ) | | | DET'N LIMIT = 0.020 | GUIDELINE = N/A | | | | |
| JAN | 1.000 <T | .130 <T | . | . | .120 <T | .080 <T | .210 <T | .090 <T |
| FEB | .030 <T | .070 <T | . | . | BDL | BDL | BDL | BDL |
| MAR | .110 <T | .090 <T | . | . | .100 <T | .030 <T | .050 <T | .030 <T |
| APR | .220 <T | .070 <T | . | . | . | . | .070 <T | .100 <T |
| MAY | .260 <T | .320 <T | . | . | .230 <T | .210 <T | . | . |
| JUN | .830 <T | .700 <T | . | . | .690 <T | .640 <T | . | . |
| JUL | .140 <T | .080 <T | .080 <T | .100 <T | . | . | BDL | BDL |
| AUG | .160 <T | .120 <T | . | . | . | . | BDL | BDL |
| SEP | .200 <T | .030 <T | . | . | BDL | BDL | . | . |
| OCT | .250 <T | .130 <T | . | . | .190 <T | .090 <T | .190 <T | .210 <T |
| NOV | .160 <T | .110 <T | . | . | .120 <T | .070 <T | .090 <T | .100 <T |
| DEC | .160 <T | .070 <T | . | . | ISN | BDL | .140 <T | BDL |
| CHROMIUM (UG/L ) | | | DET'N LIMIT = 0.100 | GUIDELINE = 50. (A1) | | | | |
| JAN | 8.700 | 5.900 | . | . | .290 <T | 3.800 | BDL | BDL |
| FEB | 6.600 | 2.900 | . | . | 3.600 | 8.800 | 5.500 | 11.000 |
| MAR | 5.300 | .460 <T | . | . | 6.900 | 9.400 | 8.300 | 9.600 |
| APR | 6.800 | 4.400 | . | . | . | . | 3.600 | 4.400 |
| MAY | 2.700 | 8.600 | . | . | 1.500 | 8.300 | . | . |
| JUN | 5.000 | 4.900 | . | . | 5.200 | 5.000 | . | . |
| JUL | 4.600 | 5.300 | 4.700 | 5.600 | . | . | 8.900 | 7.300 |
| AUG | 5.200 | 4.700 | . | . | . | . | 8.600 | 8.800 |
| SEP | 5.300 | 2.300 | . | . | 4.700 | 3.600 | . | . |
| OCT | 3.200 | .970 <T | . | . | 3.100 | 2.600 | 1.800 | 4.500 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| NOV | .120 <T | .140 <T | . | . | .400 <T | .250 <T | BDL | BDL |
| DEC | .590 <T | BDL | . | . | ISM | BDL | BDL | BDL |
| COPPER (UG/L ) | | DET'N LIMIT = .100 | | GUIDELINE = 1000 (A3) | | | | |
| JAN | 4.900 | 1.100 | . | . | 15.000 | 2.200 | .470 <T | 17.000 |
| FEB | 1.100 | 1.300 | . | . | 2.300 | 11.000 | .930 <T | 16.000 |
| MAR | 1.400 | 1.100 | . | . | 17.000 | 2.400 | .940 <T | 59.000 |
| APR | 1.700 | 1.100 | . | . | . | . | .550 <T | 47.000 |
| MAY | 1.500 | 1.100 | . | . | 11.000 | 2.300 | . | . |
| JUN | 1.800 | 1.300 | . | . | 19.000 | 2.800 | . | . |
| JUL | 1.600 | 1.500 | 18.000 | 2.800 | . | . | .490 <T | 77.000 |
| AUG | 1.300 | 1.100 | . | . | . | . | .540 <T | 57.000 |
| SEP | 1.600 | 1.600 | . | . | 15.000 | 2.400 | . | . |
| OCT | 1.400 | .900 <T | . | . | 17.000 | 2.900 | 1.100 | 52.000 |
| NOV | 1.000 <T | .780 <T | . | . | 19.000 | 2.700 | .430 <T | 46.000 |
| DEC | 1.400 <T | .680 <T | . | . | ISM | 14.000 | BDL | 3.200 <T |
| IRON (UG/L ) | | DET'N LIMIT = 4.000 | | GUIDELINE = 300. (A3) | | | | |
| JAN | 1500.000 | 19.000 <T | . | . | 220.000 | 85.000 | 96.000 | 100.000 |
| FEB | BDL | 74.000 | . | . | 75.000 | 76.000 | 72.000 | 75.000 |
| MAR | 57.000 | BDL | . | . | 51.000 | 61.000 | 84.000 | 82.000 |
| APR | 180.000 | BDL | . | . | . | . | 78.000 | 79.000 |
| MAY | 50.000 <T | BDL | . | . | 53.000 | 57.000 | . | . |
| JUN | 160.000 | 13.000 <T | . | . | 61.000 | 77.000 | . | . |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| JUL | 98.000 | BDL | 36.000 <T | 56.000 | . | . | 87.000 | 88.000 |
| AUG | 47.000 <T | BDL | . | . | . | . | 78.000 | 80.000 |
| SEP | 260.000 | 45.000 <T | . | . | 25.000 <T | 34.000 <T | . | . |
| OCT | 240.000 | BDL | . | . | 51.000 | 66.000 | 81.000 | 87.000 |
| NOV | 50.000 <T | BDL | . | . | 47.000 <T | 52.000 | 68.000 | 69.000 |
| DEC | 290.000 | BDL | . | . | ISM | 72.000 | 190.000 | BDL |
| MERCURY (UG/L ) | | | DET'N LIMIT = 0.010 | GUIDELINE = 1.000 (A1) | | | | |
| JAN | ISM | BDL | . | . | . | BDL | BDL | BDL |
| FEB | .030 <T | .060 | . | . | . | .060 | BDL | BDL |
| MAR | BDL | BDL | . | . | . | BDL | BDL | .020 <T |
| APR | BDL | BDL | . | . | . | . | BDL | BDL |
| MAY | BDL | BDL | . | . | . | BDL | . | . |
| JUN | BDL | BDL | . | . | . | BDL | . | . |
| JUL | BDL | BDL | . | BDL | . | . | BDL | BDL |
| AUG | .060 | BDL | . | . | . | . | BDL | BDL |
| SEP | BDL | BDL | . | . | . | BDL | . | . |
| OCT | BDL | BDL | . | . | . | BDL | BDL | .020 <T |
| NOV | BDL | BDL | . | . | . | BDL | BDL | BDL |
| DEC | .020 <T | .020 <T | . | . | . | .020 <T | .080 | .070 |
| MANGANESE (UG/L ) | | | DET'N LIMIT = .050 | GUIDELINE = 50.0 (A3) | | | | |
| JAN | 190.000 | .650 | . | . | 5.300 | 6.900 | 21.000 | 20.000 |
| FEB | .160 <T | 7.400 | . | . | 9.400 | 7.200 | 22.000 | 23.000 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT<br>PORT DOVER<br>SITE<br>TYPE | RAW | TREATED | SITE 1<br>STANDING | SITE 1<br>FREE FLOW | SITE 2<br>STANDING | SITE 2<br>FREE FLOW | DOANS HOLLOW<br>RAW | DOANS HOLLOW<br>TREATED |
|---|---|---|---|---|---|---|---|---|
| MAR | 5.700 | BDL | . | . | 4.700 | 7.800 | 27.000 | 27.000 |
| APR | 21.000 | .540 | . | . | . | . | 24.000 | 24.000 |
| MAY | 5.400 | .230 <T | . | . | 5.200 | 6.500 | . | . |
| JUN | 17.000 | .560 | . | . | 9.500 | 9.400 | . | . |
| JUL | 9.400 | .630 | 6.700 | 7.900 | . | . | 29.000 | 28.000 |
| AUG | 6.300 | .490 <T | . | . | . | . | 25.000 | 23.000 |
| SEP | 21.000 | 1.600 | . | . | 4.400 | 4.700 | . | . |
| OCT | 14.000 | .230 <T | . | . | 3.500 | 6.500 | 26.000 | 26.000 |
| NOV | 3.100 | .180 <T | . | . | 2.300 | 4.100 | 21.000 | 21.000 |
| DEC | 26.000 | 2.800 | . | . | ISN | 3.100 | 33.000 | .120 <T |
| MOLYBDENUM (UG/L ) | | | DET'N LIMIT = 0.020 | GUIDELINE = N/A | | | | |
| JAN | .530 | 1.200 | . | . | .700 | .840 | .520 | .550 |
| FEB | 1.400 | 1.300 | . | . | 1.200 | 1.000 | .650 | .640 |
| MAR | 1.500 | 1.500 | . | . | 1.300 | 1.100 | .780 | .820 |
| APR | 1.200 | 1.300 | . | . | . | . | .600 | .650 |
| MAY | 1.500 | 1.600 | . | . | 1.500 | 1.500 | . | . |
| JUN | 1.400 | 1.700 | . | . | 1.600 | 1.600 | . | . |
| JUL | 1.400 | 1.500 | 1.400 | 1.500 | . | . | .820 | .770 |
| AUG | 1.300 | 1.400 | . | . | . | . | .730 | .670 |
| SEP | .840 | 1.300 | . | . | 1.200 | 1.300 | . | . |
| OCT | .990 | 1.100 | . | . | .780 | .820 | .450 <T | .430 <T |
| NOV | 1.000 | 1.100 | . | . | .640 | .640 | .490 <T | .450 <T |
| DEC | 1.100 | 1.200 | . | . | ISN | .920 | .390 <T | .620 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| NICKEL (UG/L ) | | | DET'N LIMIT = 0.100 | GUIDELINE = 50. (F3) | | | | |
| JAN | .240 <T | .280 <T | . | . | 1.100 <T | BDL | BDL | BDL |
| FEB | BDL | .370 <T | . | . | BDL | .310 <T | BDL | BDL |
| MAR | .530 <T | .300 <T | . | . | .710 <T | BDL | BDL | BDL |
| APR | 1.400 <T | 1.100 <T | . | . | . | . | .220 <T | .300 <T |
| MAY | 1.300 <T | 1.000 <T | . | . | 2.200 | .610 <T | . | . |
| JUN | 9.200 | 9.300 | . | . | 12.000 | 9.600 | . | . |
| JUL | .430 <T | BDL | .970 <T | BDL | . | . | BDL | BDL |
| AUG | .600 <T | .410 <T | . | . | . | . | BDL | BDL |
| SEP | .280 <T | BDL | . | . | BDL | BDL | . | . |
| OCT | 1.100 <T | .540 <T | . | . | 1.300 <T | .220 <T | BDL | .200 <T |
| NOV | .550 <T | .650 <T | . | . | BDL | BDL | BDL | BDL |
| DEC | 1.300 <T | 1.200 <T | . | . | ISN | .390 <T | BDL | BDL |
| LEAD (UG/L ) | | | DET'N LIMIT = 0.050 | GUIDELINE = 50. (A1) | | | | |
| JAN | 2.700 | .080 <T | . | . | 1.500 | .120 <T | .120 <T | .170 <T |
| FEB | BDL | .290 | . | . | .050 <T | 1.200 | .130 <T | .240 |
| MAR | .270 | .100 <T | . | . | 1.800 | .220 | .530 | .460 |
| APR | .420 | .080 <T | . | . | . | . | .100 <T | .300 |
| MAY | .320 | .060 <T | . | . | 2.100 | .350 | . | . |
| JUN | .520 | BDL | . | . | 1.800 | .220 | . | . |
| JUL | .230 | .050 <T | 2.100 | .240 | . | . | .110 <T | .190 <T |
| AUG | .340 | .160 <T | . | . | . | . | .150 <T | .440 |
| SEP | .500 | .090 <T | . | . | 1.200 | .110 <T | . | . |
| OCT | .490 | .030 <T | . | . | 1.700 | .270 | .350 | .310 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT<br>PORT DOVER<br>SITE | | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| NOV | .090 <T | BDL | . | . | 1.600 | .120 <T | .130 <T | .080 <T |
| DEC | .440 <T | .080 <T | . | . | ISN | 1.300 | .290 <T | BDL |
| ANTIMONY (UG/L ) | | | DET'N LIMIT = .050 | GUIDELINE = 146. (D4) | | | | |
| JAN | .350 | .510 | . | . | .520 | .440 | .340 | .360 |
| FEB | .740 | .650 | . | . | .550 | .680 | .460 | .520 |
| MAR | .680 | .790 | . | . | .790 | .760 | .740 | .630 |
| APR | .560 | .540 | . | . | . | . | .360 | .380 |
| MAY | .930 | .900 | . | . | 1.000 | .960 | . | . |
| JUN | .800 | .770 | . | . | .780 | .870 | . | . |
| JUL | .830 | .740 | .700 | .760 | . | . | .570 | .500 |
| AUG | .670 | .760 | . | . | . | . | .610 | .560 |
| SEP | .460 | .490 | . | . | .610 | .540 | . | . |
| OCT | .430 | .410 | . | . | .380 | .390 | .350 | .260 |
| NOV | .440 | .550 | . | . | .480 | .320 | .360 | .310 |
| DEC | .370 <T | .520 | . | . | ISN | .480 <T | .370 <T | 1.300 |
| SELENIUM (UG/L ) | | | DET'N LIMIT = 0.200 | GUIDELINE = 10. (A1) | | | | |
| JAN | 1.100 <T | 2.100 <T | . | . | 1.800 <T | 2.500 <T | BDL | BDL |
| FEB | 4.300 <T | 3.800 <T | . | . | 4.200 <T | 3.200 <T | 3.000 <T | 2.700 <T |
| MAR | 2.200 <T | 4.500 <T | . | . | 6.300 <T | 3.400 <T | 4.400 <T | 3.000 <T |
| APR | 1.700 <T | 2.300 <T | . | . | . | . | 2.100 <T | BDL |
| MAY | BDL | 6.200 <T | . | . | 5.600 <T | 6.200 <T | . | . |
| JUN | 1.500 <T | 5.900 | . | . | 7.000 | 6.400 | . | . |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SITE | | | | | | | DOANS HOLLOW | |
| TYPE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| JUL | 2.400 <T | 4.500 <T | 3.200 <T | 4.400 <T | . | . | 3.200 <T | 2.400 <T |
| AUG | BDL | 2.300 <T | . | . | . | . | BDL | BDL |
| SEP | BDL | 1.100 <T | . | . | 1.800 <T | 2.000 <T | . | . |
| OCT | BDL | 1.500 <T | . | . | 1.300 <T | BDL | BDL | BDL |
| NOV | BDL | BDL | . | . | BDL | BDL | BDL | 1.100 <T |
| DEC | BDL | BDL | . | . | ISM | 1.400 <T | 1.100 <T | BDL |
| STRONTIUM (UG/L ) | | | DET'N LIMIT = .050 | GUIDELINE = N/A | | | | |
| JAN | 200.000 | 160.000 | . | . | 170.000 | 160.000 | 180.000 | 180.000 |
| FEB | 180.000 | 170.000 | . | . | 170.000 | 170.000 | 170.000 | 170.000 |
| MAR | 160.000 | 150.000 | . | . | 160.000 | 180.000 | 200.000 | 200.000 |
| APR | 170.000 | 160.000 | . | . | . | . | 180.000 | 170.000 |
| MAY | 160.000 | 160.000 | . | . | 170.000 | 170.000 | . | . |
| JUN | 170.000 | 180.000 | . | . | 180.000 | 170.000 | . | . |
| JUL | 170.000 | 170.000 | 150.000 | 160.000 | . | . | 170.000 | 160.000 |
| AUG | 160.000 | 170.000 | . | . | . | . | 160.000 | 160.000 |
| SEP | 160.000 | 150.000 | . | . | 150.000 | 150.000 | . | . |
| OCT | 170.000 | 160.000 | . | . | 170.000 | 170.000 | 180.000 | 180.000 |
| NOV | 160.000 | 150.000 | . | . | 180.000 | 170.000 | 170.000 | 170.000 |
| DEC | 180.000 | 180.000 | . | . | ISM | 170.000 | 170.000 | 33.000 |
| TITANIUM (UG/L ) | | | DET'N LIMIT = .050 | GUIDELINE = N/A | | | | |
| JAN | 20.000 | 2.700 | . | . | 6.900 | 5.300 | 11.000 | 9.200 |
| FEB | 2.400 | 4.300 | . | . | 4.700 | 5.400 | 7.800 | 8.300 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | | | SITE 1 | | SITE 2 | | | |
| TYPE | RAW | TREATED | STANDING | FREE FLOW | STANDING | FREE FLOW | RAW | TREATED |
| MAR | 7.200 | 5.000 | . | . | 7.400 | 9.300 | 15.000 | 15.000 |
| APR | 6.700 | 3.900 | . | . | . | . | 11.000 | 11.000 |
| MAY | 3.400 | 1.400 <T | . | . | 2.400 | 2.000 <T | . | . |
| JUN | 7.800 | 4.100 | . | . | 6.200 | 4.600 | . | . |
| JUL | 7.800 | 3.100 | 4.300 | 3.900 | . | . | 8.800 | 9.100 |
| AUG | 6.400 | 4.100 | . | . | . | . | 15.000 | 15.000 |
| SEP | 8.000 | 3.100 | . | . | 3.600 | 3.400 | . | . |
| OCT | 7.200 | 2.100 | . | . | 8.100 | 8.100 | 16.000 | 15.000 |
| NOV | 3.300 | 2.100 | . | . | 6.800 | 6.400 | 8.400 | 8.300 |
| DEC | 7.900 | 2.100 <T | . | . | ISN | 5.500 | 13.000 | 6.800 |
| THALLIUM (UG/L ) | | DET'N LIMIT = .010 | | GUIDELINE = 13. (D4) | | | | |
| JAN | .060 <T | BDL | . | . | BDL | BDL | BDL | .030 <T |
| FEB | BDL | BDL | . | . | BDL | BDL | .050 <T | BDL |
| MAR | BDL | BDL | . | . | BDL | BDL | BDL | .050 <T |
| APR | .020 <T | BDL | . | . | . | . | .020 <T | .050 <T |
| MAY | BDL | BDL | . | . | .060 <T | .020 <T | . | . |
| JUN | BDL | BDL | . | . | BDL | BDL | . | . |
| JUL | .040 <T | .060 <T | .060 <T | .040 <T | . | . | BDL | .090 <T |
| AUG | .050 <T | .070 <T | . | . | . | . | BDL | BDL |
| SEP | BDL | BDL | . | . | BDL | BDL | . | . |
| OCT | BDL | BDL | . | . | BDL | BDL | .040 <T | BDL |
| NOV | BDL | BDL | . | . | BDL | BDL | .040 <T | BDL |
| DEC | BDL | BDL | . | . | ISN | BDL | BDL | BDL |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| URANIUM (UG/L ) | | DET'N LIMIT = .020 | | GUIDELINE = 100.(81) | | | | |
| JAN | 1.100 | .080 <T | . | . | .520 | .360 | .790 | .840 |
| FEB | .240 | .500 | . | . | .460 | .550 | .940 | .930 |
| MAR | .550 | .320 | . | . | .490 | .640 | .760 | .840 |
| APR | .460 | .270 | . | . | . | . | .760 | .830 |
| MAY | .580 | .380 | . | . | .480 | .450 | . | . |
| JUN | .580 | .400 | . | . | .390 | .450 | . | . |
| JUL | .520 | .420 | .430 | .440 | . | . | .900 | .990 |
| AUG | .460 | .250 | . | . | . | . | .840 | .840 |
| SEP | .300 | .160 <T | . | . | .140 <T | .180 <T | . | . |
| OCT | .380 | .120 <T | . | . | .440 | .420 | .650 | .820 |
| NOV | .330 | .090 <T | . | . | .500 | .510 | .700 | .710 |
| DEC | .400 <T | BDL | . | . | ISN | .360 <T | .890 | .480 <T |
| VANADIUM (UG/L ) | | DET'N LIMIT = .050 | | GUIDELINE = N/A | | | | |
| JAN | 2.000 | .040 <T | . | . | .110 <T | .050 <T | .120 <T | .110 <T |
| FEB | .040 <T | .190 <T | . | . | .050 <T | .120 <T | .140 <T | .150 <T |
| MAR | .240 <T | .050 <T | . | . | .080 <T | .100 <T | .260 <T | .250 <T |
| APR | .430 <T | .150 <T | . | . | . | . | .170 <T | .170 <T |
| MAY | .420 <T | .350 <T | . | . | .250 <T | .280 <T | . | . |
| JUN | .810 | .770 | . | . | .710 | .680 | . | . |
| JUL | .350 <T | .230 <T | .150 <T | .160 <T | . | . | .180 <T | .190 <T |
| AUG | .370 <T | .230 <T | . | . | . | . | .220 <T | .200 <T |
| SEP | .630 | .220 <T | . | . | .150 <T | .180 <T | . | . |
| OCT | .450 <T | .120 <T | . | . | .110 <T | .140 <T | .140 <T | .130 <T |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| NOV | .270 <T | .040 <T | - | - | .180 <T | .160 <T | .160 <T | .190 <T |
| DEC | .580 | .190 <T | - | - | ISN | .220 <T | .320 <T | .190 <T |
| ZINC (UG/L ) | | DET'N LIMIT = .001 | | GUIDELINE = 5000. (A3) | | | | |
| JAN | 8.200 | .760 <T | - | - | 11.000 | 1.600 | 4.300 | 3.100 |
| FEB | .370 <T | 1.100 | - | - | 1.000 <T | 7.900 | 1.600 | 2.000 |
| MAR | 2.100 | 1.200 | - | - | 16.000 | 2.500 | 3.600 | 3.700 |
| APR | 2.300 | 1.500 | - | - | - | - | 2.500 | 2.400 |
| MAY | 1.800 | 2.000 | - | - | 9.700 | 2.400 | - | - |
| JUN | 3.000 | 1.900 | - | - | 10.000 | 2.400 | - | - |
| JUL | 1.800 | 1.800 | 8.900 | 1.500 | - | - | 2.200 | 2.700 |
| AUG | 1.600 | 1.300 | - | - | - | - | 2.400 | 3.400 |
| SEP | 2.200 | 2.000 | - | - | 8.600 | 1.100 | - | - |
| OCT | 2.800 | 1.400 | - | - | 11.000 | 2.700 | 3.800 | 3.500 |
| NOV | .960 <T | .620 <T | - | - | 12.000 | 1.300 | 1.800 | 1.700 |
| DEC | 2.400 | .970 <T | - | - | ISN | 11.000 | 2.400 | 1.100 <T |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| PAH | | | | | | | | |
| BENZO(K) FLUORANTHEN (NG/L ) | | | DET'N LIMIT = N/A | GUIDELINE = 2.8 (D4T) | | | | |
| JAN | 1.000 <T | BDL | . | . | . | . | BDL | BDL |
| FEB | BDL | BDL | . | . | . | . | BDL | BDL |
| MAR | BDL | BDL | . | . | . | . | BDL | BDL |
| APR | BDL | BDL | . | . | . | . | BDL | BDL |
| MAY | BDL | BDL | . | . | . | . | . | . |
| JUN | BDL | BDL | . | . | . | . | . | . |
| JUL | BDL | BDL | . | . | . | . | BDL | BDL |
| AUG | BDL | BDL | . | . | . | . | BDL | BDL |
| SEP | BDL | BDL | . | . | . | . | . | . |
| OCT | BDL | BDL | . | . | . | . | BDL | BDL |
| NOV | BDL | BDL | . | . | . | . | BDL | BDL |
| DEC | BDL | BDL | . | . | . | . | BDL | BDL |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| PESTICIDES & PCB | | | | | | | | |
| ALPHA BHC (NG/L ) | | | DET'N LIMIT = 1.000 | GUIDELINE = 700 (G) | | | | |
| JAN | 2.000 <T | 2.000 <T | . | . | . | 2.000 <T | BDL | BDL |
| FEB | 2.000 <T | 1.000 <T | . | . | . | 1.000 <T | BDL | BDL |
| MAR | BDL | BDL | . | . | . | BDL | BDL | BDL |
| APR | BDL | 1.000 <T | . | . | . | . | BDL | BDL |
| MAY | BDL | BDL | . | . | . | BDL | . | . |
| JUN | BDL | BDL | . | . | . | BDL | . | . |
| JUL | 1.000 <T | 1.000 <T | . | BDL | . | . | BDL | BDL |
| AUG | BDL | BDL | . | . | . | . | BDL | BDL |
| SEP | BDL | BDL | . | . | . | BDL | . | . |
| OCT | 1.000 <T | 2.000 <T | . | . | . | 2.000 <T | BDL | BDL |
| NOV | 1.000 <T | 1.000 <T | . | . | . | BDL | WDL | BDL |
| DEC | BDL | ILA | . | . | . | BDL | BDL | BDL |
| LINDANE (NG/L ) | | | DET'N LIMIT = 1.000 | GUIDELINE = 4000 (A1) | | | | |
| JAN | BDL | 1.000 <T | . | . | . | BDL | BDL | BDL |
| FEB | BDL | BDL | . | . | . | BDL | BDL | BDL |
| MAR | BDL | BDL | . | . | . | BDL | BDL | BDL |
| APR | BDL | BDL | . | . | . | . | BDL | BDL |
| MAY | BDL | BDL | . | . | . | BDL | . | . |
| JUN | BDL | BDL | . | . | . | BDL | . | . |
| JUL | BDL | BDL | . | BDL | . | . | BDL | BDL |
| AUG | BDL | BDL | . | . | . | . | BDL | BDL |
| SEP | BDL | BDL | . | . | . | BDL | . | . |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| OCT | BDL | BDL | . | . | . | BDL | BDL | BDL |
| NOV | BDL | BDL | . | . | . | BDL | BDL | BDL |
| DEC | BDL | ILA | . | . | . | BDL | BDL | BDL |
| ATRAZINE (NG/L ) | | | DET'N LIMIT = 50.00 | GUIDELINE = 60000 (83) | | | | |
| JAN | BDL | BDL | . | . | . | BDL | BDL | BDL |
| FEB | BDL | BDL | . | . | . | BDL | BDL | BDL |
| MAR | BDL | BDL | . | . | . | BDL | BDL | BDL |
| APR | BDL | BDL | . | . | . | . | BDL | BDL |
| MAY | BDL | BDL | . | . | . | BDL | . | . |
| JUN | BDL | BDL | . | . | . | BDL | . | . |
| JUL | BDL | BDL | . | BDL | . | . | BDL | BDL |
| AUG | 70.000 <T | BDL | . | . | . | . | BDL | BDL |
| SEP | BDL | BDL | . | . | . | . | . | . |
| OCT | BDL | BDL | . | . | . | . | BDL | BDL |
| NOV | BDL | BDL | . | . | . | . | BDL | BDL |
| DEC | BDL | BDL | . | . | . | . | BDL | BDL |
| D-ETHYL ATRAZINE (NG/L ) | | | DET'N LIMIT = N/A | GUIDELINE = N/A | | | | |
| JAN | BDL | BDL | . | . | . | BDL | BDL | BDL |
| FEB | BDL | BDL | . | . | . | BDL | BDL | BDL |
| MAR | BDL | BDL | . | . | . | BDL | BDL | BDL |
| APR | BDL | BDL | . | . | . | . | BDL | BDL |
| MAY | BDL | BDL | . | . | . | BDL | . | . |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT<br>PORT DOVER<br>SITE<br>TYPE | RAW | TREATED | SITE 1<br>STANDING | SITE 1<br>FREE FLOW | SITE 2<br>STANDING | SITE 2<br>FREE FLOW | DOANS HOLLOW<br>RAW | DOANS HOLLOW<br>TREATED |
|---|---|---|---|---|---|---|---|---|
| JUN | BDL | BDL | . | . | . | BDL | . | . |
| JUL | BDL | BDL | . | BDL | . | . | BDL | BDL |
| AUG | BDL | 230.000 <T | . | . | . | . | BDL | BDL |
| SEP | BDL | BDL | . | . | . | . | . | . |
| OCT | BDL | BDL | . | . | . | . | BDL | BDL |
| NOV | BDL | BDL | . | . | . | . | BDL | BDL |
| DEC | BDL | BDL | . | . | . | . | BDL | BDL |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT<br>PORT DOVER<br>SITE | | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| PHENOLICS (UG/L | PHENOLICS ) | | DET'N LIMIT = 0.2 | GUIDELINE = 2.00 (A3) | | | | |
| JAN | IPR | 1.000 | . | . | . | . | BDL | .600 <T |
| FEB | 1.200 | .600 <T | . | . | . | . | .400 <T | BDL |
| MAR | 2.000 | 1.600 | . | . | . | . | .800 <T | 1.400 |
| APR | 1.600 | 1.600 | . | . | . | . | .800 <T | BDL |
| MAY | .200 <T | .200 <T | . | . | . | . | . | . |
| JUN | .800 <T | .600 <T | . | . | . | . | . | . |
| JUL | 1.000 | 1.000 | . | . | . | . | 4.000 | .600 <T |
| AUG | 1.000 | .600 <T | . | . | . | . | 1.200 | BDL |
| SEP | .800 <T | .800 <T | . | . | . | . | . | . |
| OCT | 1.800 | 1.600 | . | . | . | . | 1.000 | BDL |
| NOV | .600 <T | 1.000 <T | . | . | . | . | BDL | BDL |
| DEC | BDL | .400 <T | . | . | . | . | .400 <T | .400 <T |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| VOLATILES | | | | | | | | |
| BENZENE (UG/L ) | | DET'N LIMIT = .050 | | GUIDELINE = 5.0 (B1) | | | | |
| JAN | BDL | BDL | . | . | . | BDL | BDL | BDL |
| FEB | .050 <T | BDL | . | . | . | BDL | BDL | BDL |
| MAR | BDL | BDL | . | . | . | BDL | BDL | BDL |
| APR | BDL | BDL | . | . | . | . | BDL | BDL |
| MAY | BDL | .100 <T | . | . | . | .050 <T | . | . |
| JUN | BDL | BDL | . | . | . | .050 <T | . | . |
| JUL | BDL | BDL | . | BDL | . | . | BDL | BDL |
| AUG | BDL | .100 <T | . | . | . | . | BDL | BDL |
| SEP | BDL | BDL | . | . | . | BDL | . | . |
| OCT | BDL | BDL | . | . | . | BDL | BDL | BDL |
| NOV | BDL | BDL | . | . | . | BDL | BDL | BDL |
| DEC | BDL | BDL | . | . | . | BDL | BDL | IU |
| TOLUENE (UG/L ) | | DET'N LIMIT = .050 | | GUIDELINE = 24.0 (B4) | | | | |
| JAN | BDL | BDL | . | . | . | BDL | BDL | BDL |
| FEB | .100 <T | BDL | . | . | . | .100 <T | BDL | .050 <T |
| MAR | BDL | .100 <T | . | . | . | BDL | BDL | BDL |
| APR | BDL | .100 <T | . | . | . | . | BDL | BDL |
| MAY | BDL | .150 <T | . | . | . | .100 <T | . | . |
| JUN | BDL | .100 <T | . | . | . | .150 <T | . | . |
| JUL | .100 <T | .050 <T | . | .100 <T | . | . | .050 <T | .050 <T |
| AUG | BDL | .150 <T | . | . | . | . | BDL | BDL |
| SEP | BDL | BDL | . | . | . | BDL | . | . |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| OCT | BDL | BDL | . | . | . | BDL | BDL | .100 <T |
| NOV | BDL | .050 <T | . | . | . | BDL | BDL | BDL |
| DEC | BDL | BDL | . | . | . | BDL | BDL | IU |
| ETHYLBENZENE (UG/L ) | | DET'N LIMIT = .050 | | GUIDELINE = 2.4 (B4) | | | | |
| JAN | BDL | BDL | . | . | . | BDL | BDL | BDL |
| FEB | BDL | BDL | . | . | . | BDL | BDL | BDL |
| MAR | BDL | .050 <T | . | . | . | BDL | BDL | BDL |
| APR | BDL | .050 <T | . | . | . | . | BDL | BDL |
| MAY | BDL | BDL | . | . | . | .050 <T | . | . |
| JUN | BDL | BDL | . | . | . | BDL | . | . |
| JUL | .100 <T | .050 <T | . | .050 <T | . | . | BDL | BDL |
| AUG | BDL | BDL | . | . | . | . | BDL | BDL |
| SEP | BDL | BDL | . | . | . | BDL | . | . |
| OCT | BDL | BDL | . | . | . | BDL | BDL | BDL |
| NOV | BDL | BDL | . | . | . | BDL | BDL | BDL |
| DEC | BDL | BDL | . | . | . | BDL | BDL | IU |
| M-XYLENE (UG/L ) | | DET'N LIMIT = .100 | | GUIDELINE = 300 (B4) | | | | |
| JAN | BDL | BDL | . | . | . | BDL | BDL | BDL |
| FEB | BDL | BDL | . | . | . | BDL | BDL | BDL |
| MAR | BDL | BDL | . | . | . | BDL | BDL | BDL |
| APR | BDL | .200 <T | . | . | . | . | BDL | BDL |
| MAY | BDL | .100 <T | . | . | . | .100 <T | . | . |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOARS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| JAN | BDL | BDL | . | . | . | BDL | . | . |
| JUL | .100 <T | BDL | . | BDL | . | . | BDL | BDL |
| AUG | BDL | BDL | . | . | . | . | BDL | BDL |
| SEP | BDL | BDL | . | . | . | BDL | . | . |
| OCT | BDL | BDL | . | . | . | BDL | BDL | BDL |
| NOV | BDL | BDL | . | . | . | BDL | BDL | BDL |
| DEC | BDL | BDL | . | . | . | BDL | BDL | IU |
| O-XYLENE (UG/L ) | | DET'N LIMIT = .050 | | GUIDELINE = 300 (B4) | | | | |
| JAN | BDL | BDL | . | . | . | BDL | BDL | BDL |
| FEB | BDL | BDL | . | . | . | BDL | BDL | BDL |
| MAR | BDL | .050 <T | . | . | . | .050 <T | BDL | BDL |
| APR | BDL | .100 <T | . | . | . | . | BDL | BDL |
| MAY | BDL | .100 <T | . | . | . | .050 <T | . | . |
| JUN | BDL | .050 <T | . | . | . | .050 <T | . | . |
| JUL | .050 <T | .050 <T | . | BDL | . | . | BDL | BDL |
| AUG | BDL | BDL | . | . | . | . | BDL | BDL |
| SEP | BDL | BDL | . | . | . | BDL | . | . |
| OCT | BDL | BDL | . | . | . | BDL | BDL | BDL |
| NOV | BDL | BDL | . | . | . | BDL | BDL | BDL |
| DEC | BDL | BDL | . | . | . | BDL | BDL | IU |
| STYRENE (UG/L ) | | DET'N LIMIT = .050 | | GUIDELINE = 46.5 (D2) | | | | |
| JAN | BDL | BDL | . | . | . | .050 <T | .100 <T | BDL |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| FEB | BDL | BDL | . | . | . | BDL | BDL | BDL |
| MAR | .150 <T | .100 <T | . | . | . | .150 <T | .250 <T | BDL |
| APR | BDL | BDL | . | . | . | .. | .100 <T | BDL |
| MAY | .050 <T | .100 <T | . | . | . | .250 <T | . | . |
| JUN | .050 <T | .100 <T | . | . | . | .150 <T | . | . |
| JUL | .150 <T | .250 <T | . | .350 <T | . | . | .200 <T | .050 <T |
| AUG | BDL | .100 <T | . | . | . | . | .100 <T | BDL |
| SEP | BDL | .050 <T | . | . | . | .150 <T | . | . |
| OCT | BDL | BDL | . | . | . | .050 <T | BDL | BDL |
| NOV | BDL | .100 <T | . | . | . | .100 <T | BDL | .050 <T |
| DEC | BDL | BDL | . | . | . | BDL | .050 <T | IU |
| CHLOROFORM (UG/L ) | | | DET'N LIMIT = .100 | GUIDELINE = 350 (A1+) | | | | |
| JAN | 2.000 | 27.300 | . | . | . | 21.000 | BDL | 26.900 |
| FEB | 19.800 | .200 <T | . | . | . | 19.600 | BDL | 18.300 |
| MAR | .100 <T | 28.500 | . | . | . | 23.500 | BDL | 25.000 |
| APR | .200 <T | 38.000 | . | . | . | . | BDL | 32.300 |
| MAY | .200 <T | 38.300 | . | . | . | 28.600 | . | . |
| JUN | .300 <T | 37.100 | . | . | . | 31.100 | . | . |
| JUL | 12.600 | 32.000 | . | 27.000 | . | . | .800 <T | 32.000 |
| AUG | BDL | 31.400 | . | . | . | . | BDL | 19.500 |
| SEP | .300 <T | 36.900 | . | . | . | 27.500 | . | . |
| OCT | .400 <T | 36.100 | . | . | . | 28.300 | BDL | 48.500 |
| NOV | .200 <T | 29.900 | . | . | . | 16.800 | BDL | 28.800 |
| DEC | BDL | 25.100 | . | . | . | 16.900 | BDL | IU |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT<br>PORT DOVER<br>SITE<br>TYPE | RAW | TREATED | SITE 1<br>STANDING | SITE 1<br>FREE FLOW | SITE 2<br>STANDING | SITE 2<br>FREE FLOW | DOANS HOLLOW<br>RAW | DOANS HOLLOW<br>TREATED |
|---|---|---|---|---|---|---|---|---|
| 111, TRICHLOROETHANE (UG/L ) | | DET'N LIMIT = .020 | | GUIDELINE = 200 (D1) | | | | |
| JAN | BDL | BDL | - | - | - | BDL | BDL | BDL |
| FEB | BDL | .080 <T | - | - | - | BDL | BDL | BDL |
| MAR | BDL | BDL | - | - | - | BDL | BDL | BDL |
| APR | BDL | BDL | - | - | - | - | BDL | BDL |
| MAY | BDL | BDL | - | - | - | BDL | - | - |
| JUN | BDL | BDL | - | - | - | BDL | - | - |
| JUL | .020 <T | BDL | - | BDL | - | - | BDL | BDL |
| AUG | BDL | BDL | - | - | - | - | BDL | BDL |
| SEP | BDL | BDL | - | - | - | BDL | - | - |
| OCT | BDL | BDL | - | - | - | BDL | BDL | BDL |
| NOV | BDL | BDL | - | - | - | BDL | BDL | BDL |
| DEC | BDL | BDL | - | - | - | BDL | BDL | IU |
| DICHLOROBROMOMETHANE (UG/L ) | | DET'N LIMIT = .050 | | GUIDELINE = 350 (A1+) | | | | |
| JAN | .300 <T | 13.350 | - | - | - | 11.400 | BDL | 10.250 |
| FEB | 11.550 | .150 <T | - | - | - | 10.900 | BDL | 7.150 |
| MAR | BDL | 13.900 | - | - | - | 9.650 | BDL | 7.050 |
| APR | .050 <T | 16.250 | - | - | - | - | BDL | 13.000 |
| MAY | BDL | 14.700 | - | - | - | 13.400 | - | - |
| JUN | BDL | 16.450 | - | - | - | 14.050 | - | - |
| JUL | 6.700 | 13.850 | - | 12.100 | - | - | BDL | 13.500 |
| AUG | BDL | 13.450 | - | - | - | - | BDL | 9.900 |
| SEP | .200 <T | 15.400 | - | - | - | 13.000 | - | - |
| OCT | .100 <T | 14.300 | - | - | - | 9.500 | BDL | 12.600 |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT<br>PORT DOVER<br>SITE<br>TYPE | RAW | TREATED | SITE 1<br>STANDING | SITE 1<br>FREE FLOW | SITE 2<br>STANDING | SITE 2<br>FREE FLOW | DOANS HOLLOW<br>RAW | DOANS HOLLOW<br>TREATED |
|---|---|---|---|---|---|---|---|---|
| NOV | .100 <T | 12.800 | . | . | . | 9.550 | BDL | 11.450 |
| DEC | BDL | 13.400 | . | . | . | 9.700 | BDL | IU |
| CHLORODIBROMOMETHANE (UG/L ) | | | DET'N LIMIT = .100 | GUIDELINE = 350 (A1+) | | | | |
| JAN | BDL | 5.100 | . | . | . | 4.600 | BDL | 3.700 |
| FEB | 4.400 | .100 <T | . | . | . | 4.200 | BDL | 2.900 |
| MAR | BDL | 4.500 | . | . | . | 2.800 | BDL | 1.100 |
| APR | BDL | 5.900 | . | . | . | . | BDL | 4.400 |
| MAY | BDL | 5.500 | . | . | . | 5.200 | . | . |
| JUN | BDL | 6.600 | . | . | . | 5.600 | . | . |
| JUL | 2.900 | 5.500 | . | 5.100 | . | . | BDL | 4.900 |
| AUG | BDL | 5.600 | . | . | . | . | BDL | 3.800 |
| SEP | .100 <T | 6.200 | . | . | . | 5.900 | . | . |
| OCT | BDL | 4.900 | . | . | . | 3.000 | BDL | 2.300 |
| NOV | BDL | 4.500 | . | . | . | 3.800 | BDL | 3.600 |
| DEC | BDL | 6.100 | . | . | . | 2.700 | BDL | IU |
| BROMOFORM (UG/L ) | | | DET'N LIMIT = .200 | GUIDELINE = 350 (A1+) | | | | |
| JAN | BDL | .400 <T | . | . | . | .400 <T | BDL | .200 <T |
| FEB | .400 <T | BDL | . | . | . | .400 <T | BDL | .200 <T |
| MAR | BDL | 1.000 <T | . | . | . | .200 <T | BDL | BDL |
| APR | BDL | .400 <T | . | . | . | . | BDL | .200 <T |
| MAY | BDL | .400 <T | . | . | . | .400 <T | . | . |
| JUN | BDL | .800 <T | . | . | . | .400 <T | . | . |

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM PORT DOVER SUPPLY 1989

| PLANT | PORT DOVER | | | | | | DOANS HOLLOW | |
|---|---|---|---|---|---|---|---|---|
| SITE | RAW | TREATED | SITE 1 | | SITE 2 | | RAW | TREATED |
| TYPE | | | STANDING | FREE FLOW | STANDING | FREE FLOW | | |
| JUL | .400 <T | .600 <T | . | .600 <T | . | . | BDL | .400 <T |
| AUG | BDL | .600 <T | . | . | . | . | BDL | .200 <T |
| SEP | BDL | .600 <T | . | . | . | .600 <T | . | . |
| OCT | BDL | .400 <T | . | . | . | .200 <T | BDL | BDL |
| NOV | BDL | .200 <T | . | . | . | .200 <T | BDL | BDL |
| DEC | BDL | .600 <T | . | . | . | .200 <T | BDL | IU |
| TOTL TRIHALOMETHANES (UG/L ) | | | DET'N LIMIT = .500 | GUIDELINE = 350 (A1) | | | | |
| JAN | 2.300 <T | 46.150 | . | . | . | 37.470 | BDL | 41.050 |
| FEB | 36.150 | BDL | . | . | . | 35.100 | BDL | 28.550 |
| MAR | BDL | 47.900 | . | . | . | 36.150 | BDL | 33.150 |
| APR | BDL | 60.550 | . | . | . | . | BDL | 49.900 |
| MAY | BDL | 58.900 | . | . | . | 47.600 | . | . |
| JUN | BDL | 60.950 | . | . | . | 51.150 | . | . |
| JUL | 22.600 | 51.950 | . | 44.800 | . | . | .800 <T | 50.800 |
| AUG | BDL | 51.050 | . | . | . | . | BDL | 33.400 |
| SEP | .600 <T | 59.100 | . | . | . | 47.000 | . | . |
| OCT | .500 <T | 55.700 | . | . | . | 41.000 | BDL | 63.400 |
| NOV | BDL | 47.400 | . | . | . | 30.350 | BDL | 43.850 |
| DEC | BDL | 45.250 | . | . | . | 29.550 | BDL | IU |

TRACE LEVELS OF TOLUENE ARE LABORATORY ARTIFACTS DERIVED FROM THE ANALYTICAL METHODOLOGY.

TRACE LEVELS OF STYRENE ARE CONSIDERED TO BE LABORATORY ARTIFACTS RESULTING FROM THE LABORATORY SHIPPING CONTAINERS.

Table 6

| SCAN/PARAMETER | UNIT | DETECTION LIMIT | GUIDELINE |
|---|---|---|---|
| **BACTERIOLOGICAL** | | | |
| FECAL COLIFORM MEMBRANE FILTRATION | CT/100ML | 0 | 0 (A1) |
| STANDARD PLATE COUNT MEMBRANE FILTRATION | CT/ML | 0 | 500/ML(A1) |
| TOTAL COLIFORM MEMBRANE FILTRATION | CT/100ML | 0 | 5/100mL(A1) |
| TOTAL COLIFORM BACKGROUND MF | CT/100ML | 0 | N/A |
| **CHLOROAROMATICS** | | | |
| HEXACHLOROBUTADIENE | NG/L | 1.000 | 450. (D4) |
| 1,2,3-TRICHLOROBENZENE | NG/L | 5.000 | 10000 (I) |
| 1,2,3,4-TETRACHLOROBENZENE | NG/L | 1.000 | 10000 (I) |
| 1,2,3,5-TETRACHLOROBENZENE | NG/L | 1.000 | 10000 (I) |
| 1,2,4-TRICHLOROBENZENE | NG/L | 5.000 | 10000 (I) |
| 1,2,4,5-TETRACHLOROBENZENE | NG/L | 1.000 | 38000 (D4) |
| 1,3,5-TRICHLOROBENZENE | NG/L | 5.000 | 10000 (D4) |
| HEXACHLOROBENZENE | NG/L | 1.0 | 10. (C1) |
| HEXACHLOROETHANE | NG/L | 1.000 | 1900. (D4) |
| OCTACHLOROSTYRENE | NG/L | 1.000 | N/A |
| PENTACHLOROBENZENE | NG/L | 1.000 | 74000 (D4) |
| 2,3,6-TRICHLOROTOLUENE | NG/L | 5.000 | N/A |
| 2,4,5-TRICHLOROTOLUENE | NG/L | 5.000 | N/A |
| 2,6,A-TRICHLOROTOLUENE | NG/L | 5.000 | N/A |
| **CHLOROPHENOLS** | | | |
| 2,3,4-TRICHLOROPHENOL | NG/L | 50. | N/A |
| 2,3,4,5-TETRACHLOROPHENOL | NG/L | 50. | N/A |
| 2,3,5,6-TETRACHLOROPHENOL | NG/L | 50. | N/A |
| 2,4,5-TRICHLOROPHENOL | NG/L | 50. | 2600000 (D4) |
| 2,4,6-TRICHLOROPHENOL | NG/L | 50. | 2000. (B4) |
| PENTACHLOROPHENOL | NG/L | 50. | 30000. (B4) |
| **CHEMISTRY (FLD)** | | | |
| FIELD COMBINED CHLORINE RESIDUAL | MG/L | N/A | N/A |
| FIELD FREE CHLORINE RESIDUAL | MG/L | N/A | N/A |
| FIELD TOTAL CHLORINE RESIDUAL | MG/L | N/A | N/A |
| FIELD PH | DMSNLESS | N/A | 6.5-8.5(A4) |
| FIELD TEMPERATURE | °C | N/A | <15 °C(A1) |
| FIELD TURBIDITY | FTU | N/A | 1.0 (A1) |
| **CHEMISTRY (LAB)** | | | |
| ALKALINITY | MG/L | .200 | 30-500(A4) |
| CALCIUM | MG/L | .100 | 100. (F2) |
| CYANIDE | MG/L | .001 | .20(A1) |
| CHLORIDE | MG/L | .200 | 250. (A3) |
| COLOUR | TCU | .5 | 5.0 (A3) |
| CONDUCTIVITY | UMHO/CM | 1. | 400. (F2) |
| FLUORIDE | MG/L | .01 | 2.4 (A1) |
| HARDNESS | MG/L | .50 | 80-100(A4) |
| MAGNESIUM | MG/L | .05 | 30. (F2) |
| SODIUM | MG/L | .20 | 200. (C3) |
| AMMONIUM TOTAL | MG/L | .002 | .05(F2) |
| SCAN/PARAMETER | UNIT | DETECTION LIMIT | GUIDELINE |
| NITRITE | MG/L | .001 | 1.0 (A1) |
| TOTAL NITRATES | MG/L | .02 | 10. (A1) |
| NITROGEN TOTAL KJELDAHL | MG/L | .02 | N/A |
| PH | DMSNLESS | N/A | 6.5-8.5(A4) |
| PHOSPHORUS FIL REACT | MG/L | .0005 | N/A |
| PHOSPHORUS TOTAL | MG/L | .002 | .40(F2) |
| SULPHATE | MG/L | .200 | 500. (A3) |
| TOTAL SOLIDS | MG/L | 1. | 500. (A3) |
| TURBIDITY | FTU | .02 | 1.0 (A1) |

| | | | | |
|---|---|---|---|---|
| ANTIMONY | UG/L | .050 | 10. | (F3) |
| ARSENIC | UG/L | .050 | 50. | (A1) |
| BARIUM | UG/L | .020 | 1000. | (A1) |
| BORON | UG/L | .200 | 5000. | (A1) |
| BERYLLIUM | UG/L | .010 | 0.20 | (H) |
| CADMIUM | UG/L | .050 | 5.0 | (A1) |
| COBALT | UG/L | .020 | 1000. | (H) |
| CHROMIUM | UG/L | .100 | 50. | (A1) |
| COPPER | UG/L | .100 | 1000. | (A3) |
| IRON | UG/L | 5.0 | 300. | (A3) |
| MERCURY | UG/L | .01 | 1.0 | (A1) |
| MANGANESE | UG/L | .050 | 50. | (A3) |
| MOLYBDENUM | UG/L | .020 | 500. | (H) |
| NICKEL | UG/L | .100 | 50. | (F3) |
| LEAD | UG/L | .020 | 50. | (A1) |
| SELENIUM | UG/L | .200 | 10. | (A1) |
| SILVER | UG/L | .020 | 50. | (A1) |
| STRONTIUM | UG/L | .100 | 2000. | (H) |
| THALLIUM | UG/L | .010 | 13. | (D4) |
| TITANIUM | UG/L | .100 | N/A | |
| URANIUM | UG/L | .020 | 20. | (A2) |
| VANADIUM | UG/L | .020 | 100. | (H) |
| ZINC | UG/L | .020 | 5000. | (A3) |

**PHENOLICS**

| | | | | |
|---|---|---|---|---|
| PHENOLICS (UNFILTERED REACTIVE) | UG/L | .2 | 2.0 | (A3) |

**PESTICIDES & PCB**

| | | | | |
|---|---|---|---|---|
| ALDRIN | NG/L | 1.0 | 700. | (A1) |
| AMETRINE | NG/L | 50. | 300000. | (D3) |
| ATRAZINE | NG/L | 50. | 60000. | (B3) |
| ALPHA HEXACHLOROCYCLOHEXANE (BHC) | NG/L | 1.0 | 700. | (G) |
| BETA HEXACHLOROCYCLOHEXANE (BHC) | NG/L | 1.0 | 300. | (G) |
| GAMMA HEXACHLOROCYCLOHEXANE(LINDANE) | NG/L | 1.0 | 4000. | (A1) |
| ALPHA CHLORDANE | NG/L | 2.0 | 7000. | (A1) |
| GAMMA CHLORDANE | NG/L | 2.0 | 7000. | (A1) |
| BLADEX | NG/L | 100. | 10000. | (B3) |
| DIELDRIN | NG/L | 2.0 | 700. | (A1) |
| METHOXYCHLOR | NG/L | 5.0 | 900000. | (B1) |
| ENDOSULFAN 1 (THIODAN I) | NG/L | 2.0 | 74000. | (D4) |
| ENDOSULFAN 2 (THIODAN II) | NG/L | 4.0 | 74000. | (D4) |
| ENDRIN | NG/L | 4.0 | 200. | (A1) |
| ENDOSULFAN SULPHATE(THIODAN SULPHATE) | NG/L | 4.0 | N/A | |

| SCAN/PARAMETER | UNIT | DETECTION LIMIT | GUIDELINE | |
|---|---|---|---|---|
| HEPTACHLOR EPOXIDE | NG/L | 1.0 | 3000. | (A1) |
| HEPTACHLOR | NG/L | 1.0 | 3000. | (A1) |
| METOLACHLOR | NG/L | 500. | 50000. | (B3) |
| MIREX | NG/L | 5.0 | N/A | |
| OXYCHLORDANE | NG/L | 2.0 | N/A | |
| O,P-DDT | NG/L | 5.0 | 30000. | (A1) |
| PCB | NG/L | 20.0 | 3000. | (A2) |
| O,P-DDD | NG/L | 5.0 | N/A | |
| PPDDE | NG/L | 1.0 | 30000. | (A1) |
| PPDDT | NG/L | 5.0 | 30000. | (A1) |
| ATRATONE | NG/L | 50. | N/A | |
| ALACHLOR | NG/L | 500. | 35000. | (D2) |
| PROMETONE | NG/L | 50. | 52500. | (D3) |
| PROPAZINE | NG/L | 50. | 16000. | (D2) |
| PROMETRYNE | NG/L | 50. | 1000. | (B3) |
| SENCOR (METRIBUZIN) | NG/L | 100. | 80000. | (B2) |
| SIMAZINE | NG/L | 50. | 10000. | (B3) |

**POLYAROMATIC HYDROCARBONS**

| | | | | |
|---|---|---|---|---|
| PHENANTHRENE | NG/L | 10.0 | N/A | |
| ANTHRACENE | NG/L | 1.0 | N/A | |
| FLUORANTHENE | NG/L | 20.0 | 42000. | (D4) |
| PYRENE | NG/L | 20.0 | | N/A |
| BENZO(A)ANTHRACENE | NG/L | 20.0 | N/A | |
| CHRYSENE | NG/L | 50.0 | N/A | |
| DIMETHYL BENZO(A)ANTHRACENE | NG/L | 5.0 | N/A | |
| BENZO(E)PYRENE | NG/L | 50.0 | N/A | |
| BENZO(B)FLUORANTHENE | NG/L | 10.0 | N/A | |

| | | | | |
|---|---|---|---|---|
| PERYLENE | NG/L | 10.0 | N/A | |
| BENZO(K)FLUORANTHENE | NG/L | 1.0 | N/A | |
| BENZO(A)PYRENE | NG/L | 5.0 | 10. | (B1) |
| BENZO(G,H,I)PERYLENE | NG/L | 20.0 | N/A | |
| DIBENZO(A,H)ANTHRACENE | NG/L | 10.0 | N/A | |
| INDENO(1,2,3-C,D)PYRENE | NG/L | 20.0 | N/A | |
| BENZO(B)CHRYSENE | NG/L | 2.0 | N/A | |
| CORONENE | NG/L | 10.0 | N/A | |

SPECIFIC PESTICIDES

| | | | | |
|---|---|---|---|---|
| TOXAPHENE | NG/L | N/A | 5000. | (A1) |
| 2,4,5-TRICHLOROBUTYRIC ACID (2,4,5-T) | NG/L | 50. | 200000. | (B4) |
| 2,4-DICHLOROBUTYRIC ACID (2,4-D) | NG/L | 100. | 100000. | (A1) |
| 2,4-DICHLOROPHENOXYBUTYRIC ACID | NG/L | 200. | 18000. | (B3) |
| 2,4-D PROPIONIC ACID | NG/L | 100. | N/A | |
| DICAMBA | NG/L | 100. | 120000. | (B1) |
| PICLORAM | NG/L | 100. | 190000. | (B3) |
| SILVEX (2,4,5-TP) | NG/L | 50. | 10000. | (A1) |
| DIAZINON | NG/L | 20. | 20000. | (B1) |
| DICHLOROVOS | NG/L | 20. | N/A | |
| DURSBAN | NG/L | 20. | N/A | |
| ETHION | NG/L | 20. | 35000. | (G) |
| GUTHION(AZINPHOSMETHYL) | NG/L | N/A | 20000. | (B1) |
| MALATHION | NG/L | 20. | 190000. | (B1) |
| MEVINPHOS | NG/L | 20. | N/A | |
| METHYL PARATHION | NG/L | 50. | 7000. | (A1) |
| METHYLTRITHION | NG/L | 20. | N/A | |

| SCAN/PARAMETER | UNIT | DETECTION LIMIT | GUIDELINE | |
|---|---|---|---|---|
| PARATHION | NG/L | 20. | 50000. | (B1) |
| PHORATE (THIMET) | NG/L | 20. | 2000. | (B3) |
| RELDAN | NG/L | 20. | N/A | |
| RONNEL | NG/L | 20. | N/A | |
| AMINOCARB | NG/L | N/A | N/A | |
| BENOMYL | NG/L | N/A | N/A | |
| BUX (METALKAMATE) | NG/L | 2000. | N/A | |
| CARBOFURAN | NG/L | 2000. | 90000. | (B1) |
| CICP (CHLORPROPHAM) | NG/L | 2000. | 350000. | (G) |
| DIALLATE | NG/L | 2000. | 30000. | (H) |
| EPTAM | NG/L | 2000. | N/A | |
| IPC | NG/L | 2000. | N/A | |
| PROPOXUR (BAYGON) | NG/L | 2000. | 90000. | (G) |
| SEVIN (CARBARYL) | NG/L | 200. | 90000. | (B1) |
| SUTAN (BUTYLATE) | NG/L | 2000. | 245000. | (D3) |

VOLATILES

| | | | | |
|---|---|---|---|---|
| BENZENE | UG/L | .050 | 5.0 | (P1) |
| TOLUENE | UG/L | .050 | 24.0 | (B4) |
| ETHYLBENZENE | UG/L | .050 | 2.4 | (B4) |
| PARA-XYLENE | UG/L | .100 | 300. | (B4) |
| META-XYLENE | UG/L | .100 | 300. | (B4) |
| ORTHO-XYLENE | UG/L | .050 | 300. | (B4) |
| 1,1-DICHLOROETHYLENE | UG/L | .100 | 7.0 | (D1) |
| ETHLYENE DIBROMIDE | UG/L | .05 | .05 | G) |
| METHYLENE CHLORIDE | UG/L | .500 | 50. | (B1) |
| TRANS-1,2-DICHLOROETHYLENE | UG/L | .100 | 70. | (D5) |
| 1,1-DICHLOROETHANE | UG/L | .100 | N/A | |
| CHLOROFORM | UG/L | .100 | 350. | (A1+) |
| 1,1,1-TRICHLOROETHANE | UG/L | .020 | 200. | (D1) |
| 1,2-DICHLOROETHANE | UG/L | .050 | 5.0 | (D1) |
| CARBON TETRACHLORIDE | UG/L | .200 | 5.0 | (B1) |
| 1,2-DICHLOROPROPANE | UG/L | .050 | 6.0 | (D5) |
| TRICHLOROETHYLENE | UG/L | .100 | 50. | (B1) |
| DICHLOROBROMOMETHANE | UG/L | .050 | 350. | (A1+) |
| 1,1,2-TRICHLOROETHANE | UG/L | .050 | .60 | (D4) |
| CHLORODIBROMOMETHANE | UG/L | .100 | 350. | (A1+) |
| TETRACHLOROETHYLENE | UG/L | .050 | 10.0 | (C2) |
| BROMOFORM | UG/L | .200 | 350. | (A1+) |
| 1,1,2,2-TETRACHLOROETHANE | UG/L | .050 | 0.17 | (D4) |
| CHLOROBENZENE | UG/L | .100 | 60. | (D5) |
| 1,4-DICHLOROBENZENE | UG/L | .100 | 1.0 | (B4) |
| 1,3-DICHLOROBENZENE | UG/L | .100 | 130. | (G) |

| | | | | |
|---|---|---|---|---|
| 1,2-DICHLOROBENZENE | UG/L | .050 | 3.0 | (B4) |
| TRIFLUOROCHLOROTOLUENE | UG/L | .100 | N/A | |
| TOTAL TRIHALOMETHANES | UG/L | .500 | 350. | (A1) |
| STYRENE | UG/L | .05 | 140. | (D5) |